



March 21, 2014

State Remediation Section
 Bureau of Land and Waste Management
 South Carolina Department of Health and Environmental Control
 2600 Bull Street
 Columbia, South Carolina 29201-1708

Attn: Ms. Keisha Long
 PHN: 803-896-4872
 FAX: 803-896-4292
 Email: longkd@dhec.sc.gov

RECEIVED

APR 11 2014

**SITE ASSESSMENT,
 REMEDIATION &
 REVITALIZATION**

**Re: Monitoring Well Installation and Sampling Report
 Castlebridge Properties, LLC Property
 200/280 National Avenue
 Spartanburg, Spartanburg County, South Carolina
 VCC 07-5712-RP
 Terracon Project No. 86117104**

Dear Ms. Long:

On behalf of Castlebridge Properties, LLC, Terracon Consultants, Inc. (Terracon) provides the results of groundwater monitoring well installation and sampling activities related to the Castlebridge Properties, LLC property located at 200/280 National Avenue in Spartanburg, South Carolina. The well installation and sampling activities were conducted in accordance with the workplan addendum prepared December 30, 2011 (approved January 20, 2012 with supplemental approval on April 15, 2013) and the Monitoring Well Approval (MW-09332), dated September 24, 2013. The scope of work is to satisfy requirements of the Voluntary Cleanup Contract (VCC 07-5712-RP) as specified in the Remedial Investigation Phase I Report (RI Phase I Report), dated March 6, 2009.

SITE INFORMATION

The Site is located at 200 and 280 National Avenue in Spartanburg, Spartanburg County, South Carolina, approximately one-half mile west of the intersection of New Cut Road and Interstate 26 (Figure 1). The Site contains two semi-rectangular parcels identified by Spartanburg County map numbers 2-54-00-008.01 (8.9 acres) and 2-54-00-008.00 (12.1 acres).

The Site encompasses two vacant industrial-type warehouses, asphalt parking areas, a fire-suppression water-tank, landscaped areas, security fencing and undeveloped, wooded land. A site diagram is included as Figure 2 and shows the Site layout and pertinent features.

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Findings of the Remedial Investigation (RI) Phase I assessment conducted in September 2008 indicate tetrachloroethene (PCE) and, to a lesser degree, trichloroethene (TCE) are the primary constituents of concern at the Site. VOC impacts to soil were identified; however, the reported concentrations did not exceed industrial SSLs. Where impacts to soil were identified, PCE and TCE were also detected in the groundwater screening samples at concentrations exceeding their respective MCLs. No LNAPL or DNAPL were observed in the groundwater screening samples. Based on the distribution of the detected PCE/TCE constituents, the source of the contamination appears to be related to the previous use of drycleaning fluids at the 200 National Avenue building and, to a lesser degree, at the 280 National Avenue building. Based on the Phase I RI screening results, seven permanent monitoring wells (MW-1D, -2D, -3, -4, -5, -6D, and -7D) were installed on the Castlebridge property in August 2009 to evaluate the on-site horizontal extent of the chlorinated hydrocarbon plume in the saprolite and shallow bedrock aquifer. Off-site wells were not installed at that time due to site physical constraints and access issues.

Results from the 2009 groundwater sampling event indicated the groundwater flow direction at the site is to the north-northwest toward the assumed groundwater discharge point of the stream present on adjacent property along the Site northwestern boundary. Two stream samples were collected during the RI Phase I sampling activities with no chlorinated volatile organic compounds (CVOCs) detected in the stream samples. Groundwater analytical data from the permanent monitoring wells revealed concentrations of PCE in excess of its MCL in all the Site wells, with the exception of MW-5. No other VOCs, including TCE, were detected in the samples above applicable regulatory standards. Based on a review of the groundwater sampling results, DHEC requested additional assessment, including off-site properties, to further define the extent of CVOCs in the groundwater downgradient of MW-6D and MW-1D (SCDHEC correspondence, K. Long, SCDHEC to T. Morgan, Castlebridge Properties, 2/26/2010).

Following a lengthy access approval process from the west-adjacent land owner, Mr. J. Cothran (Spartanburg County Tax ID 2-54-00-008.06), Terracon conducted initial groundwater screening activities on the Cothran property in January 2013. Twelve (12) shallow temporary wells GP-1 through GP-12 were installed using a track-mounted GeoProbe® direct-push drill-rig to the saprolite/partially weathered bedrock interface, as defined by probe refusal, to assess the horizontal extent of CVOCs in the water table/upper bedrock aquifer. Borings GP-1 through GP-5 were installed on the Cothran property adjacent to and downgradient from the 280 National Avenue building. Borings GP-6 through GP-12 were installed on the Cothran property adjacent to and downgradient from the 200 National Avenue building. Probe refusal was encountered in each boring ranging from 23 feet below ground surface (bgs) in GP-2 to 72 feet bgs in GP-10 and GP-12. Groundwater was not encountered above probe refusal in GP-1 (24' bgs), GP-2 (23' bgs), and GP-4 (24' bgs).

Groundwater samples were collected from each temporary monitoring well which exhibited groundwater and screened for tetrachloroethene (PCE) using the low-level Color-Tec® method. The Color-Tec® screening results indicated no PCE detections above the tube detection limit of 0.1 parts per million (ppm) in the groundwater samples with the exception of GP-9 (0.5 ppm) and GP-10 (0.5 ppm). As supplement to each screening sample, a groundwater sample was collected for laboratory analysis for VOCs using EPA Method 8260B by a SCHDEC certified laboratory.

Based on the laboratory analytical data for the initial screening activities, the downgradient horizontal extent of the chlorinated groundwater plume remained undefined with detections of PCE above the MCL (5 µg/L) in the most downgradient temporary wells (GP-6 (6.6 µg/L), GP-11 (14 µg/L) and GP-12 (130 µg/L)) on the Cothran property.

Terracon remobilized to the Cothran property in April 2013 to conduct additional field screening activities. Seven temporary monitoring wells (GP-13 through GP-19) were installed with a track-mounted GeoProbe® direct-push drill-rig. The temporary wells were installed in a similar fashion as the initial field screening activities. Probe refusal was encountered at each location ranging from 31 feet bgs at GP-16 / GP-19 to 62 feet bgs at GP-15. Groundwater was encountered in each boring; however, a groundwater sample could not be collected from GP-14 due to a GeoProbe® sampler malfunction.

Groundwater samples from the temporary monitoring wells were collected in a similar fashion as the initial field screening activities. The groundwater samples were field screened using the Color-Tec method with low-level Gastec detector tubes for tetrachloroethene (133LL). The Color-Tec screening results indicated no PCE detections above the tube detection limit of 0.1 ppm in the groundwater samples from GP-13 through GP-19. For verification, a groundwater sample was collected from each screening point for laboratory analysis of VOCs using EPA Method 8260B.

The laboratory analytical results for the second screening process indicate the horizontal extent of the plume had been adequately defined on the Cothran property downgradient of the 280 National Avenue building with no detections of PCE above the method detection limit as indicated in several temporary wells (GP-13 (< 1.0 µg/L) and GP-5 (< 1.0 µg/L)).

The laboratory analytical results indicate the horizontal extent of the plume had been adequately defined on the Cothran property downgradient of the 200 National Avenue building with no detections of PCE in the downgradient temporary wells (GP-18 (< 1.0 µg/L) and GP-19 (< 1.0 µg/L)).

Based on the field screening analytical results, it was proposed that five (5) permanent monitoring wells be installed on the adjacent Cothran property to monitor the off-site CVOC

plume and one background well be installed on the Castlebridge property in accordance with the approved December 2011 Workplan Addendum as documented in the Temporary Monitoring Well Sampling Results report, dated July 1, 2013. The number and location of the proposed monitoring wells were approved by SCDHEC on September 24, 2013 (MW-09332, Appendix F).

PERMANENT MONITORING WELL INSTALLATION

Terracon installed the five permanent monitoring wells (MW-9, MW-10, MW-11, MW-12, and MW-13) on the Cothran property and the background well, MW-8, on the Castlebridge property from November 4-8, 2013. The well installation was overseen by a Terracon geologist; Mr. John Skowronek, P.G. SAEDACCO, Inc. (Mr. Robert Miller, SC Well Driller Certification #1472) installed the borings using 8-inch OD hollow stem augers until the interception of competent bedrock, as indicated by auger refusal. Afterwards, the drill rig was retooled with a 4-inch air hammer to extend the boring approximately 5 feet into competent bedrock. The wells were constructed with 2-inch PVC well materials and 10-foot, 0.010-inch machine slotted well screens set from the bottom of each boring. A 15-foot well screen was installed in the background well, MW-8. The wells screens were positioned to bracket the lower saprolite/upper bedrock transition zone. The wells were completed with a sand filter pack from the bottom of the boring to approximately two feet above the well screen followed by approximately two feet of hydrated bentonite seal and grouted to the land surface with a bentonite cement grout. Each well was completed at the ground surface with a lockable 4-inch steel standup protective cover secured in a 2'X2' square concrete well pad. A summary of the monitoring well construction details is provided in Table 1. Copies of the boring logs and monitoring well construction diagrams are provided in Appendix A. The SCDEHC Form 1903 Water Well Records are included in Appendix B.

Following installation, the monitoring wells were developed with either a 12-volt submersible pump or new, disposable bailers until development water was relatively clear and free of sediment. Investigation derived wastes (IDW) consisting of auger cuttings and development/purge water were staged on the Castlebridge property in sixteen 55-gallon drums (five purge water and eleven soil cuttings) prior to disposal by JBR Environmental Services (Spartanburg, South Carolina). A copy of the disposal manifest for the IDW is included in Appendix C.

The newly installed permanent wells were surveyed by a South Carolina Professional Land Surveyor (Freeland & Associates, No. 4781) for location, based on the SC Grid system utilizing NAD83 Horizontal Datum, and elevation, based on NAVD88 Vertical Datum. The locations of the wells are shown on Figure 2.

GROUNDWATER ASSESSMENT

Terracon personnel, Mr. Ryan Haynes and Mr. Tice Welborn, conducted groundwater sampling activities on November 13 and 18, 2013. Prior to sample collection, water levels in all the monitoring wells were gauged with an electric water-level meter on November 13, 2013. Groundwater elevations, referenced in feet to the site temporary bench mark (TBM), ranged from 869.74 (MW-13) to 901.87 (MW-8). The approximate horizontal groundwater flow direction across the area in the water table/upper bedrock aquifer was drawn perpendicular to equipotential contours established from water level measurements and groundwater elevations. The resulting groundwater flow direction is to the north-northwest following the unnamed stream present along the northern and western Cothran property boundary. The average horizontal hydraulic gradient was calculated by dividing the change in hydraulic head (Δh) between two wells by the horizontal distance between the two wells (Δl). The resulting average hydraulic gradient calculated from MW-8 to MW-11 is 0.025 (26.68 feet/1080 feet). Groundwater elevation contours of the shallow water table aquifer and the groundwater flow direction are shown on Figure 3. Depth to groundwater measurements and subsequent groundwater elevations are summarized on Table 2.

Terracon personnel purged all monitoring wells a minimum of three well volumes or until dry, whichever came first, using low flow purging and sampling techniques with a peristaltic pump. Measurements of temperature, pH, specific conductance, dissolved oxygen and turbidity were recorded during purging and sampling activities to determine when groundwater representative of the aquifer was obtained. Copies of the well sampling logs are included in Appendix D.

One trip blank, one field blank, and one field duplicate (MW-1D) were submitted in accordance with the approved workplan. No discrepancies were noted with the analysis of the QA/QC blanks collected as part of this assessment.

The groundwater quality samples were placed in a cooler with ice and delivered along with chain of custody documentation to Pace Analytical Services, Inc. (SCDHEC Certification No. 99006001) for analysis of Target Compound List (TCL) VOCs by USEPA Method 8260B.

Laboratory analytical results indicated that **Tetrachloroethene** was detected above the laboratory reporting limits in samples from the following monitoring wells: MW-1D (131 $\mu\text{g/L}$); MW-2D (293 $\mu\text{g/L}$); MW-3 (37.7 $\mu\text{g/L}$); MW-4 (4.8 $\mu\text{g/L}$); MW-6D (763 $\mu\text{g/L}$); MW-7D (2.5 $\mu\text{g/L}$); MW-9 (1.0 $\mu\text{g/L}$); MW-11 (5.2 $\mu\text{g/L}$); MW-12 (365 $\mu\text{g/L}$); and MW-13 (27.9 $\mu\text{g/L}$). **Trichloroethene** was detected above the reporting limit in MW-2D at 4.0 $\mu\text{g/L}$, MW-3 at 1.2 $\mu\text{g/L}$, MW-6D at 20.6 $\mu\text{g/L}$ and in MW-12 at 33.4 $\mu\text{g/L}$. **Cis-1,2-Dichloroethene** was detected in MW-1 at 1.2 $\mu\text{g/L}$, MW-2D at 6.4 $\mu\text{g/L}$, MW-3D at 1.5 $\mu\text{g/L}$, MW-6D at 37.6 $\mu\text{g/L}$, MW-12 at 26.9 $\mu\text{g/L}$, and MW-13 at 1.3 $\mu\text{g/L}$. In addition, **1,1-Dichloroethane** (1.9 $\mu\text{g/L}$)

and 1,1-Dichloroethene (1.8 µg/L) were detected in MW-6D above the laboratory reporting limit. No other VOCs were detected in the groundwater samples above the laboratory reporting limits. A summary of select/detected VOC constituents in groundwater samples, along with historical data, is presented as Table 3. A copy of the laboratory report of analysis is included in Appendix E.

Concentrations of detected constituents were compared to maximum contaminant levels (MCLs) listed in the *Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites*, published November 2013. PCE was reported above the MCL of 5.0 µg/L in MW-1D (131 µg/L), MW-2D (293 µg/L), MW-3 (37.7 µg/L), MW-6D (763 µg/L), MW-11 (5.2 µg/L), MW-12 (365 µg/L) and MW-13 (27.9 µg/L). TCE was reported above its MCL of 5.0 µg/L in MW-6D (20.6 µg/L) and MW-12 (µg/L). No other VOCs were detected above their respective MCLs, where applicable. An illustration of the detected PCE and TCE values is provided in Figure 4.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the field screening events, five permanent monitoring wells were installed in November 2013 on the adjacent Cothran property to monitor the off-site CVOC plume emanating from the Castlebridge property. One monitoring well, MW-8, was installed on the Castlebridge property to monitor background conditions.

Groundwater elevations indicate the flow direction across the area is to the north-northwest toward the assumed groundwater discharge point of the stream present along the northern and western Cothran property boundary.

Groundwater analytical data reveal concentrations of PCE and, to a lesser degree, TCE in excess of their respective MCLs (5 µg/L) in Site monitoring wells: MW-1D; MW-2D; MW-3; MW-6D and the off-site (Cothran) wells: MW-11; MW-12 and MW-13. No other VOCs were detected in the samples above applicable regulatory standards. Based on the distribution of the CVOCs, low levels of PCE/TCE impacted groundwater are present on the Castlebridge property in the vicinity of the AST area at the southwest corner of the 200 National Avenue building (MW-2D/MW-3); vicinity of the storage area at the northwest corner of the 200 National Avenue building (MW-1D); and the eastern side of the 280 National Avenue building (MW-6D). Impacts to groundwater above applicable MCLs on the downgradient adjacent Cothran property are documented along the northern property boundary (MW-12 and MW-13). The northern Cothran property boundary is bordered by a north-northwestern flowing creek and Southern Railroad line.

Based on a comparison to historical data, the CVOC concentrations in the Site wells appear to remain stable with slight decreases in CVOC concentrations evident in MW-1D, MW-2D,

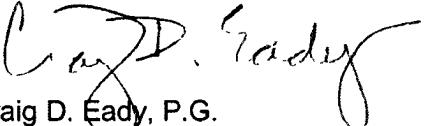
MW-4, and MW-7. Indications of natural attenuation through reductive dechlorination is evident based on the presence of several breakdown constituents of PCE/TCE including cis 1,2-DCE and to a lesser degree, 1,1-DCE in several of the Site and Cothran wells.

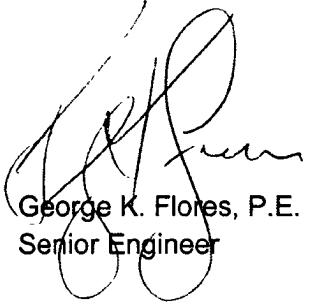
The Site is located in a developed portion of Spartanburg County used for industrial-type purposes. The Site encompasses two industrial-type warehouses, asphalt parking areas, a fire-suppression water-tank, landscaped areas, security fencing and undeveloped, wooded land. Potable water is supplied to the property by a public utility. Sanitary wastes discharge to the Spartanburg Sanitary Sewer District. Properties in the immediate area, including the Cothran property, are undeveloped woodlands with a broad low-lying creek area and a Southern Railroad line. The groundwater in the area is not used as a drinking water supply. Based on the lack of receptors in the area, Terracon recommends that the Site and off-site monitoring wells be sampled on a periodic basis to monitor the CVOC contaminant plume.

We appreciate the opportunity to provide results of the monitoring well installation and groundwater sampling activities. If you have any questions or comments regarding the information provided herein, please contact us at 864.292.2901.

Sincerely,

TERRACON CONSULTANTS, INC.


Craig D. Eady, P.G.
Senior Geologist

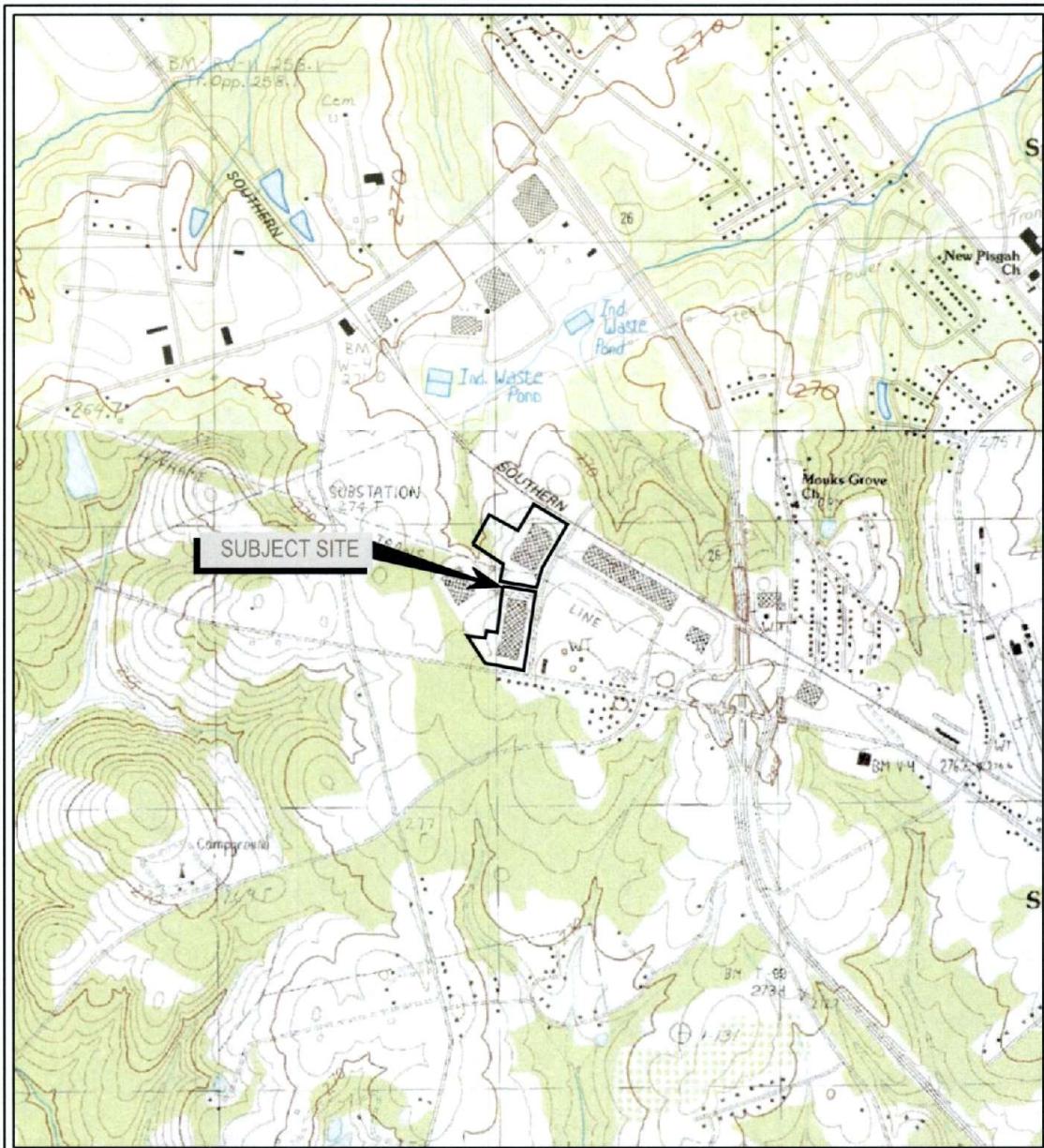

George K. Flores, P.E.
Senior Engineer

CC: Mr. Thom Morgan, Castlebridge Properties, LLC, P.O. Box 128, Hazelwood, NC 28738
Ms. Gail Jeter, Cardno, 1233 Washington Street, Suite 1000, Columbia, South Carolina
29201

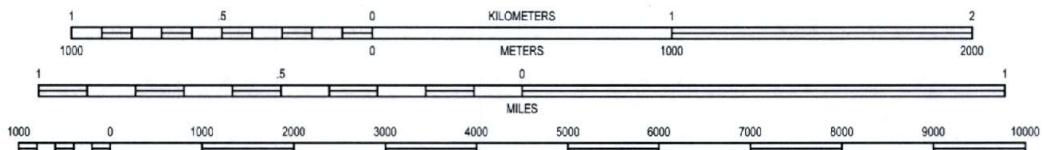


FIGURES

- Figure 1 – Site Location Map**
- Figure 2 – Monitoring Well Location Map**
- Figure 3 – Potentiometric Map**
- Figure 4 – CVOC Plume Configuration Map**



SCALE 1:24 000



CONTOUR INTERVAL 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

INMAN, SOUTH CAROLINA
WELLFORD, SOUTH CAROLINA
1983

7.5 MINUTE SERIES (TOPOGRAPHIC)

Project Mngr:	CDE
Drawn By:	DWD
Checked By:	CDE/MRF
Approved By:	CDE

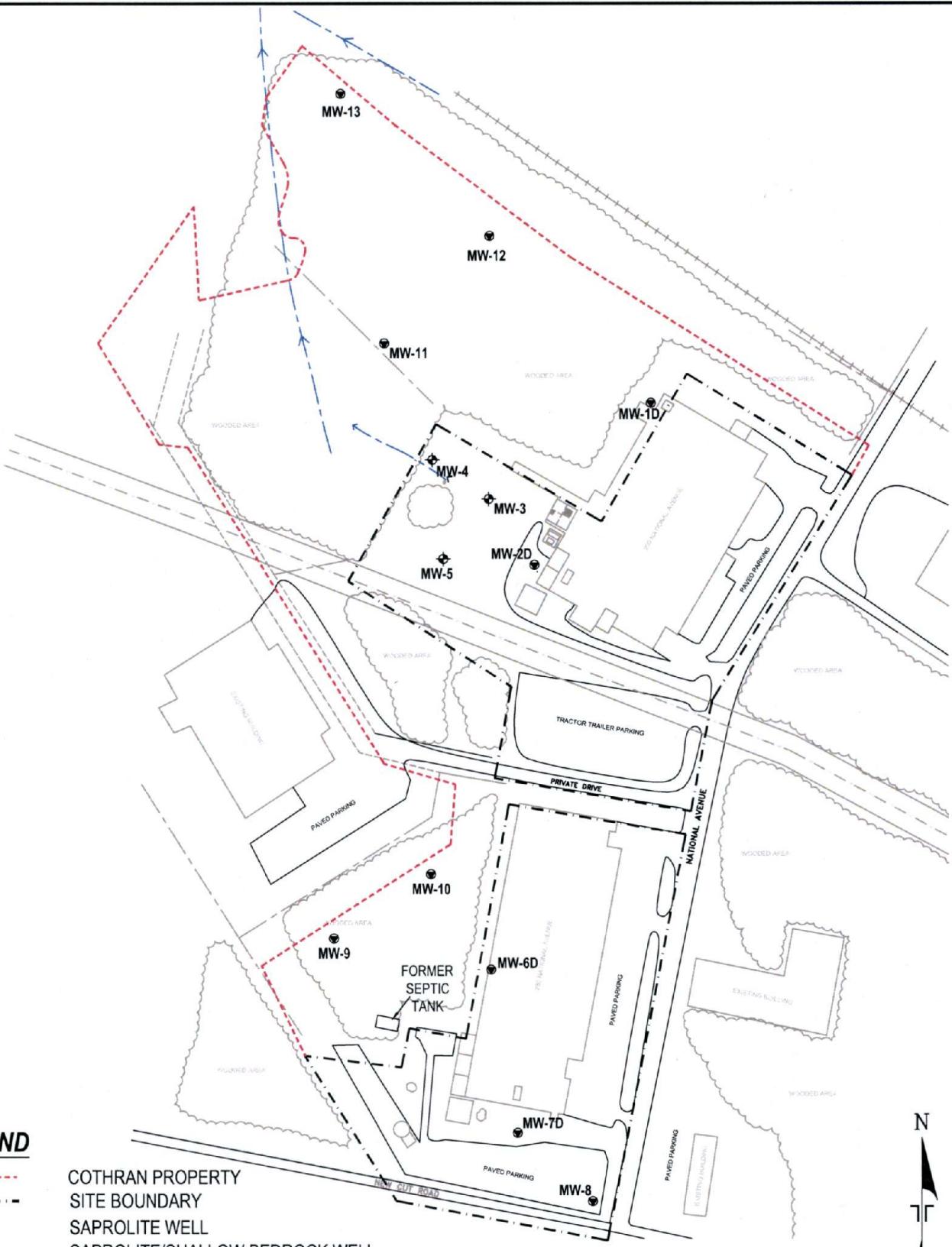
Project No.	86117104
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File No.	TMR86117104-1
Date:	JAN. 2014

Terracon
Consulting Engineers and Scientists

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SITE LOCATION MAP	
MONITORING WELL INSTALLATION AND SAMPLING REPORT CASTLEBRIDGE PROPERTIES, LLC PROPERTY 200 AND 280 NATIONAL AVENUE SPARTANBURG, SPARTANBURG COUNTY, SC	

FIG. No.
1



LEGEND

- - - - - COTHRAN PROPERTY SITE BOUNDARY
- - - SAPROLITE WELL
- SAPROLITE/SHALLOW BEDROCK WELL

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

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Drawn By:	DWD
Checked By:	CDE/MRF
Approved By:	CDE

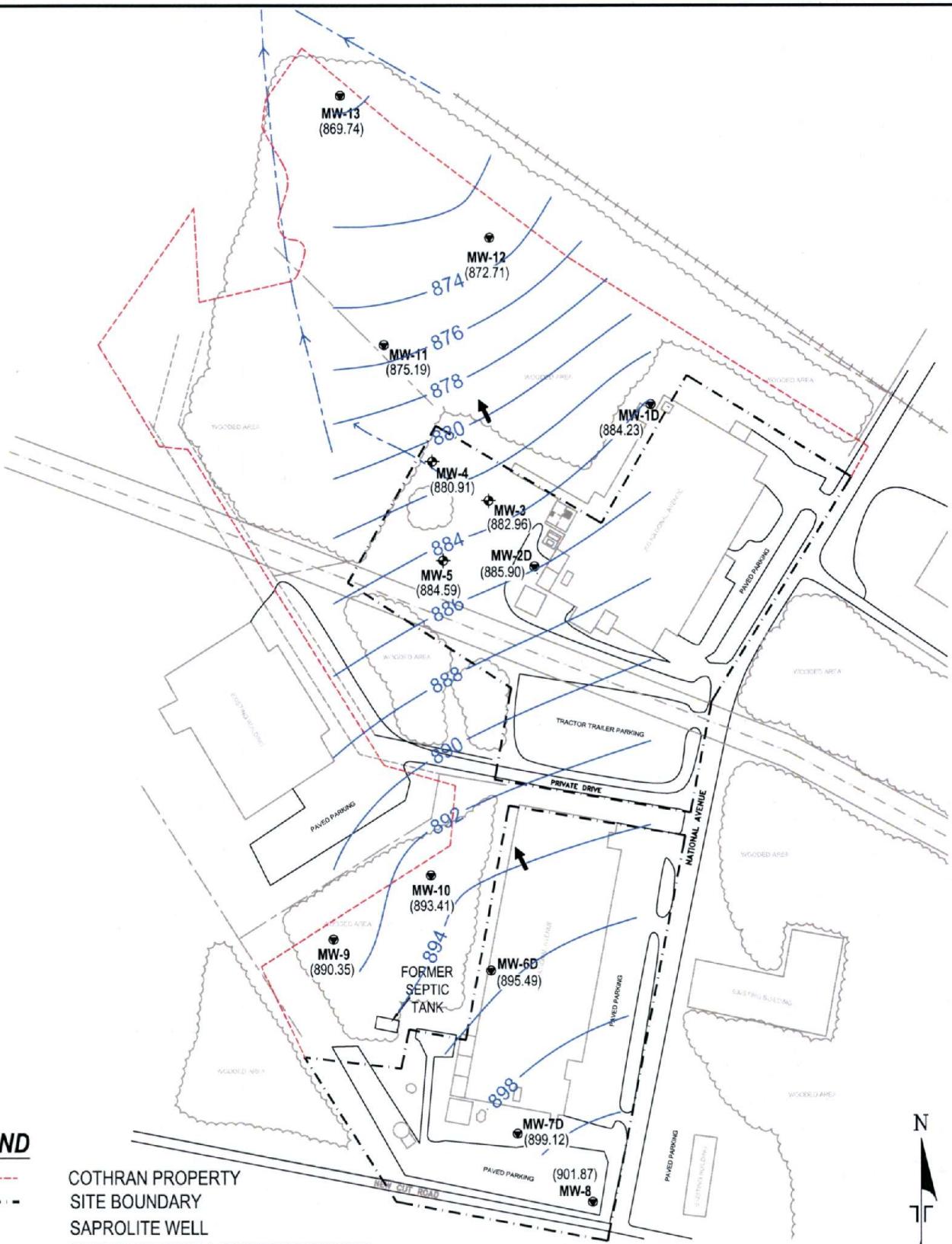
Project No.	86117104
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File No	R186117104-2
Date:	JANUARY 2014

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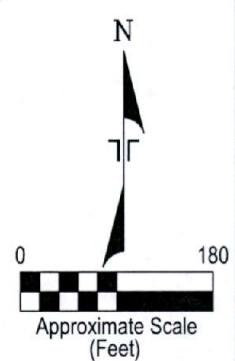
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MONITORING WELL LOCATION MAP	
MONITORING WELL INSTALLATION AND SAMPLING REPORT CASTLEBRIDGE PROPERTIES, LLC PROPERTY 200 AND 280 NATIONAL AVENUE SPARTANBURG, SPARTANBURG COUNTY, SC	

FIG. No.	2
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Approved By:	CDE

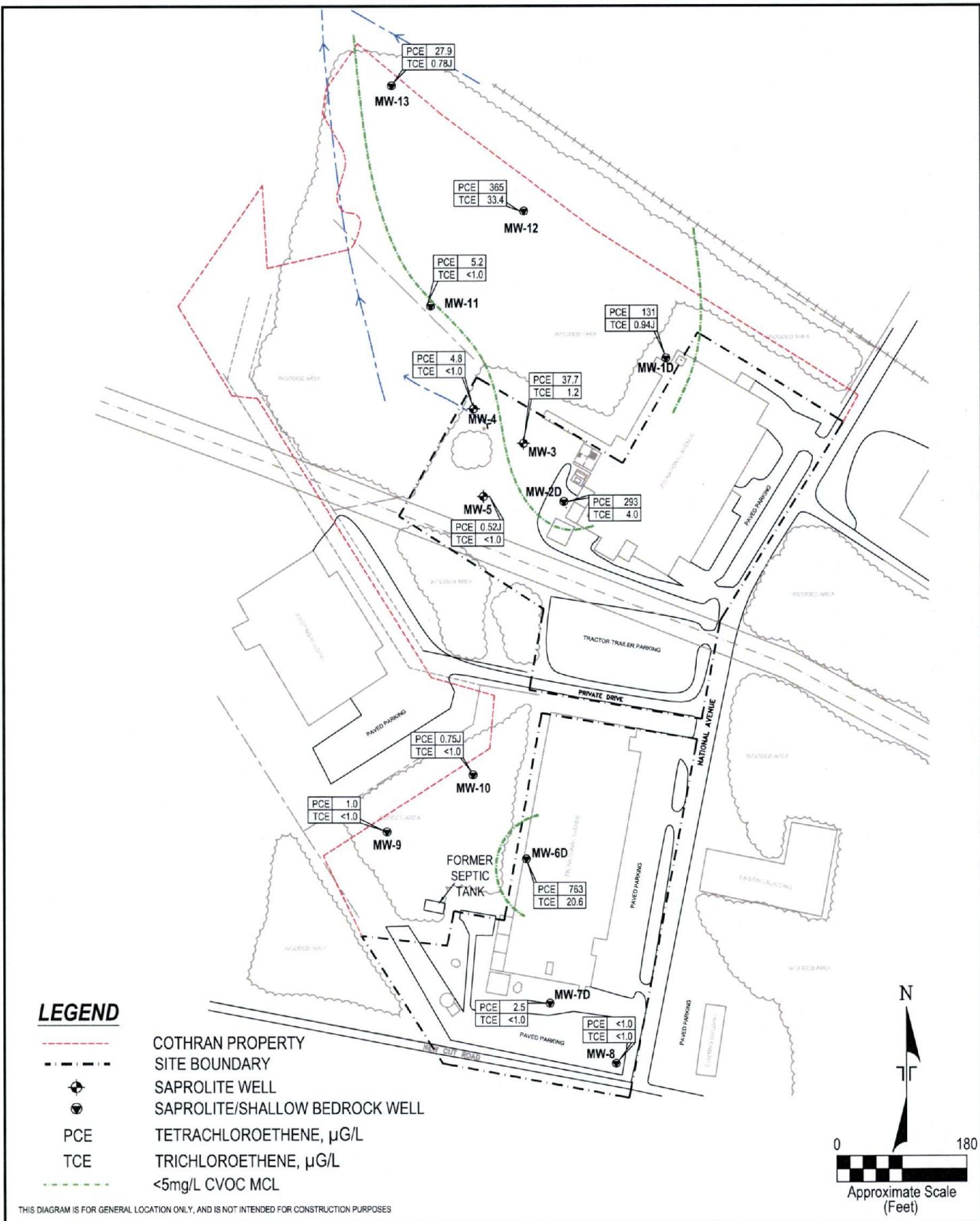
Project No.	86117104
Scale:	AS SHOWN
File No.	R186117104-3
Date:	JANUARY 2014

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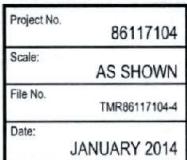
POTENTIOMETRIC MAP
MONITORING WELL INSTALLATION AND SAMPLING REPORT
CASTLEBRIDGE PROPERTIES, LLC PROPERTY
200 AND 280 NATIONAL AVENUE
SPARTANBURG, SPARTANBURG COUNTY, SC

FIG. No.
3



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Drawn By:	DWD
Checked By:	CDE/MRF
Approved By:	CDE



CVOC PLUME CONFIGURATION

MONITORING WELL INSTALLATION AND SAMPLING REPORT
CASTLEBRIDGE PROPERTIES, LLC PROPERTY
200 AND 280 NATIONAL AVENUE
SPARTANBURG, SPARTANBURG COUNTY, SC

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TABLE

Table 1 – Monitoring Well Construction Details

Table 2 – Groundwater Elevation Data

Table 3 – Detected COCs in Groundwater

TABLE 1. MONITORING WELL CONSTRUCTION DETAILS
CASTLEBRIDGE PROPERTIES, LLC. PROPERTY
200-280 NATIONAL AVENUE, SPARTANBURG, SOUTH CAROLINA

Well ID	Date Installed	GSE		TOC		TD		Screen		Filter Sand		Seal		Grout	
		FT TBM	FT TBM	FT TBM	FT BGS	FT BGS	FT BGS	FT BGS	FT BGS	FT BGS					
<i>Phase I RI Well Installation</i>															
MW-1D	8/25/09	908.70	911.58	47.0	32.47	30-47	28-30	0-28							
MW-2D	8/25/09	908.04	910.85	56.0	42-52	39-56	37-39	0-37							
MW-3	8/24/09	899.05	901.96	25.0	15-25	12-25	8.5-12	0-8.5							
MW-4	8/24/09	890.50	893.42	15.0	5-10	3.5-15	1-3.5	0-1							
MW-5	8/24/09	900.42	903.38	20.0	10-20	8-20	6-8	0-6							
MW-6D	8/26/09	921.54	923.91	56.0	35-50	33-56	31-33	0-31							
MW-7D	8/27/09	917.32	917.17	59.0	44-59	42-59	40-42	0-40							
<i>Phase II RI Well Installation</i>															
MW-8	11/8/13	922.08	921.76	72.0	57-72	55-72	53-55	0-53							
MW-9	11/7/13	910.94	913.51	57.0	47-57	45-57	43-45	0-43							
MW-10	11/6/13	915.39	917.81	31.0	21-31	19-31	17-19	0-17							
MW-11	11/5/13	887.19	890.11	85.0	70-80	68-80	66-68	0-66							
MW-12	11/6/13	886.06	888.79	45.0	35-45	33-35	31-33	0-31							
MW-13	11/6/13	888.84	888.84	45.0	35-45	33-45	31-33	0-31							

NOTES:

- 1) GSE (Ground Surface Elevation) measured in feet and referenced to the site temporary benchmark (TBM).
- 2) TOC (Top of Casing Elevation) measured in feet and referenced to the site TBM.
- 3) TD (Total Depth) measured in feet below ground surface (BGS).
- 4) Screen, Filter Sand, Seal and Grout represents interval measured in feet BGS.

TABLE 2. GROUNDWATER ELEVATION DATA
CASTLEBRIDGE PROPERTIES, LLC. PROPERTY
200-280 NATIONAL AVENUE, SOUTH CAROLINA

Well ID	Date	GSE		TOC		Screen	Depth to Groundwater	Groundwater Elevation
		FT TBM	FT TBM	FT BGS	FT TOC			
MW-1D	11/18/13	908.70	911.58	32.47	27.35			884.23
MW-2D	11/18/13	908.04	910.85	42.52	24.95			885.90
MW-3	11/18/13	899.05	901.96	15.25	19.00			882.96
MW-4	11/18/13	890.50	893.42	5-10	12.51			880.91
MW-5	11/18/13	900.42	903.38	10-20	18.79			884.59
MW-6D	11/18/13	921.54	923.91	35-50	28.42			895.49
MW-7D	11/18/13	917.32	917.17	44-59	18.05			899.12
MW-8	11/18/13	922.08	921.76	57-72	19.89			901.87
MW-9	11/18/13	910.94	913.51	47-57	23.16			890.35
MW-10	11/18/13	915.39	917.81	21-31	24.40			893.41
MW-11	11/18/13	887.19	890.11	70-80	14.92			875.19
MW-12	11/18/13	886.06	888.79	35-45	16.08			872.71
MW-13	11/18/13	888.84	888.84	35-45	19.10			869.74

NOTES:

- 1) GSE (Ground Surface Elevation) measured in feet and referenced to the site temporary benchmark (TBM).
- 2) TOC (Top of Casing Elevation) measured in feet and referenced to the site TBM.
- 3) Screen represents interval measured in feet BGS.
- 4) Depth to Groundwater measured in feet below the top of casing with an water level meter.
- 5) Groundwater Elevation measured in feet and referenced to site TBM.

TABLE 3. DETECTED COCs IN GROUNDWATER
CASTLEBRIDGE PROPERTIES, LLC. PROPERTY
200-280 NATIONAL AVENUE, SOUTH CAROLINA

Well ID	Date	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride
	MCL Units	NE µg/L	5 µg/L	7 µg/L	<5.0 µg/L	50 µg/L	5 µg/L	2 µg/L
MW-1D	9/2/2009	<5.0	<5.0	<5.0	<5.0	170.0	<5.0	<2.0
	11/18/2013	<1.0	<1.0	<1.0	1.2	131.0	0.95J	<1.0
MW-2D	11/18/2013 (dup)	<1.0	<1.0	<1.0	1.2	140.0	0.94J	<1.0
	9/2/2009	<5.0	<5.0	<5.0	<5.0	400.0	<5.0	<2.0
MW-3	11/18/2013	0.79J	<1.0	0.84J	6.4	293.0	4.0	<1.0
	9/2/2009	<5.0	<5.0	<5.0	<5.0	33.0	<5.0	<2.0
MW-4	11/18/2013	<1.0	<1.0	<1.0	1.5	37.7	1.2	<1.0
	9/2/2009	<5.0	<5.0	<5.0	<5.0	6.3	<5.0	<2.0
MW-5	11/18/2013	<1.0	<1.0	<1.0	<1.0	4.8	<1.0	<1.0
	9/2/2009	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	<2.0
MW-6D	11/18/2013	1.9	<1.0	1.8	37.6	763.0	20.6	<1.0
	9/2/2009	<5.0	<5.0	<5.0	<5.0	20.0	<5.0	<2.0
MW-7D	11/13/2013	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0
	9/2/2009	<5.0	<5.0	<5.0	<5.0	750.0	<5.0	<2.0
MW-8	11/13/2013	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	11/18/2013	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0
MW-9	11/18/2013	<1.0	<1.0	<1.0	<1.0	0.75J	<1.0	<1.0
	11/18/2013	<1.0	<1.0	<1.0	<1.0	5.2	<1.0	<1.0
MW-11	11/13/2013	<1.0	<1.0	0.21J	26.9	365.0	33.4	<1.0
	11/13/2013	0.37J	<1.0	0.67J	<1.0	27.9	0.78J	<1.0
MW-13	11/13/2013	<1.0	<1.0	<1.0	1.3			

Notes:

MCL: Maximum Contaminant Limit per "EPA RSL, November 2013"

NE: No MCL established

Gray shaded areas are in excess of established MCLs

APPENDICES

- Appendix A – Boring Logs and Monitoring Well Construction Diagrams
- Appendix B – SC 1903 Well Forms
- Appendix C – Disposal Manifest
- Appendix D – Groundwater Sampling Field Sheets
- Appendix E – Laboratory Analytical Report
- Appendix F – SC DHEC Monitoring Well Approval

APPENDIX A

BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

WELL LOG NO. MW-8

Page 1 of 1

PROJECT: Remedial Investigation		CLIENT: Castlebridge Properties, LLC Property		
SITE: 200 & 280 National Avenue Spartanburg, South Carolina				
GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS SAMPLE TYPE
DEPTH	MATERIAL DESCRIPTION	Well Completion: Surface Mount		
0.5\	ASPHALT PAVEMENT / GRAVEL BASE <u>SANDY SILT (ML)</u> , tan to reddish brown, dry, micaceous		5	
35.0	<u>SANDY SILT (ML)</u> , tan to reddish brown, wet, micaceous	Grouted to Surface	10	
54.0	<u>SAPROLITE (Silty Sand)</u> , tan to reddish brown, wet, (Partially Weathered Rock)	53' to 55' - Bentonite Seal 55' to 72' - #2 Filter Sand	15	
64.0		57' to 72' - 2" (0.010) Slotted PVC	20	
67.0	<u>PARTIALLY WEATHERED ROCK</u>		25	
73.0	<u>ROCK</u> , with fine to medium grained sand inclusions, gray		30	
<i>Boring Terminated at 73 Feet</i>				
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown. Hammer Type: Automatic				
Advancement Method: 4.25" Hollow Stem Auger / 4" Hammer		Notes:		
Abandonment Method:				
WATER LEVEL OBSERVATIONS		Well Started: 11/8/2013	Well Completed: 11/8/2013	
		Drill Rig: Gus Pech GP-1100E	Driller: R. Miller	
		Project No.: 86117104	Exhibit: B-1	

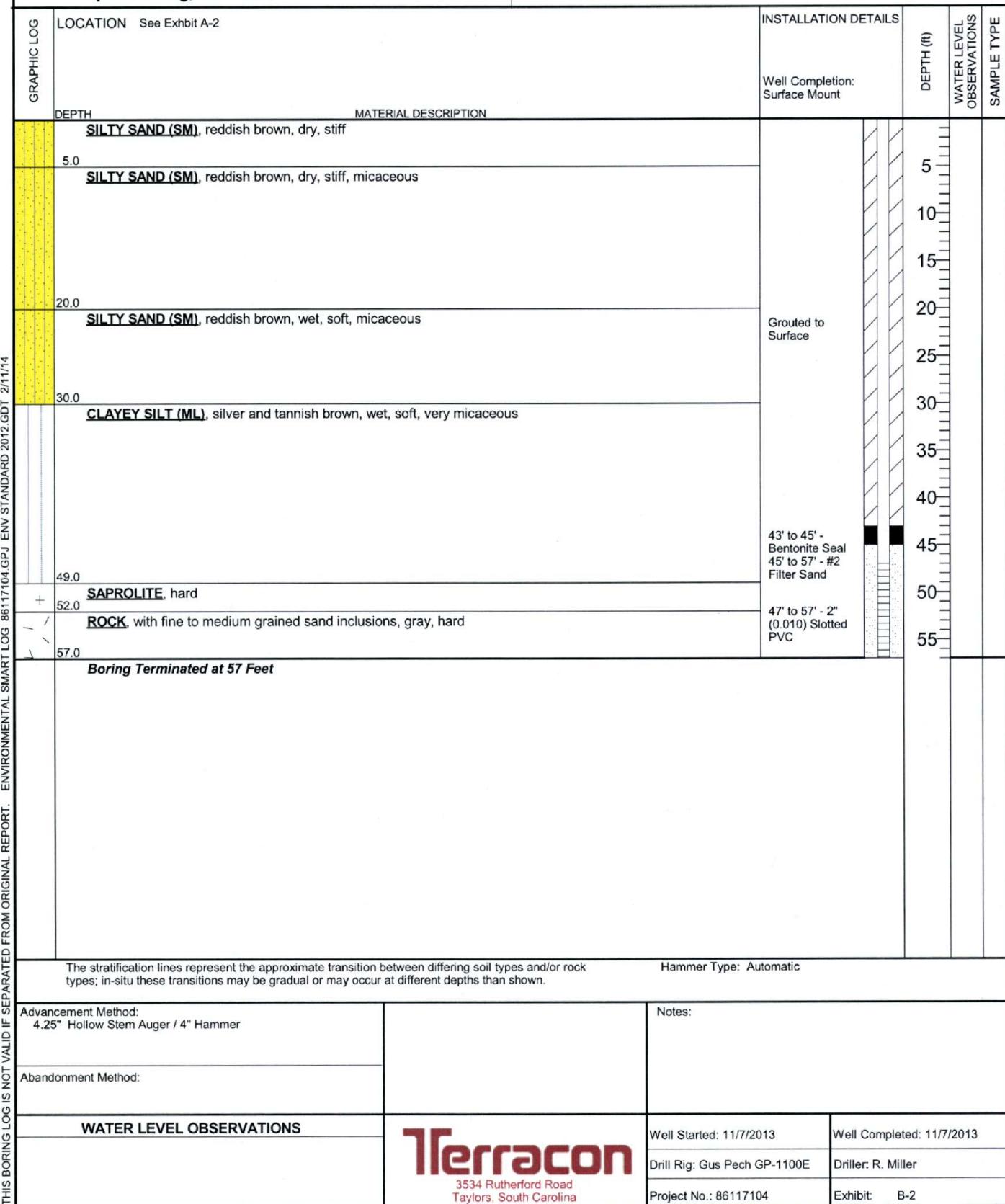
WELL LOG NO. MW-9

Page 1 of 1

PROJECT: Remedial Investigation

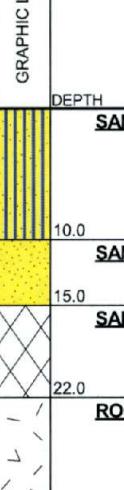
CLIENT: Castlebridge Properties, LLC Property

**SITE: 200 & 280 National Avenue
Spartanburg, South Carolina**



WELL LOG NO. MW-10

Page 1 of 1

PROJECT: Remedial Investigation		CLIENT: Castlebridge Properties, LLC Property		
SITE: 200 & 280 National Avenue Spartanburg, South Carolina				
GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS
	DEPTH MATERIAL DESCRIPTION	Well Completion: Surface Mount		SAMPLE TYPE
	SANDY SILT (ML) , orangish brown, dry, medium stiff 10.0 SAND (SP) , fine to medium grained, brown, dry 15.0 SAPROLITE , with coarse grained sand, gray to tan 22.0 ROCK , with sand, olive gray, hard 31.0	Grouted to Surface 17' to 19' - Bentonite Seal 19' to 31' - #2 Filter Sand 21' to 31' - 2" (0.010) Slotted PVC	5 10 15 20 25 30	
Boring Terminated at 31 Feet				
<p>The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.</p> <p>Hammer Type: Automatic</p>				
Advancement Method: 4.25" Hollow Stem Auger / 4" Hammer		Notes:		
Abandonment Method:				
WATER LEVEL OBSERVATIONS		Terracon 3534 Rutherford Road Taylors, South Carolina	Well Started: 11/6/2013 Drill Rig: Gus Pech GP-1100E Project No.: 86117104	Well Completed: 11/6/2013 Driller: R. Miller Exhibit: B-3

WELL LOG NO. MW-11

Page 1 of 1

PROJECT: Remedial Investigation		CLIENT: Castlebridge Properties, LLC Property		
SITE: 200 & 280 National Avenue Spartanburg, South Carolina				
GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS SAMPLE TYPE
		Well Completion: Surface Mount		
DEPTH	MATERIAL DESCRIPTION		DEPTH (ft)	
5.0	<u>SANDY SILT (ML)</u> , grayish brown, dry, stiff		5	
10.0	<u>SANDY SILT (ML)</u> , light brown, dry, stiff		10	
15.0	<u>SANDY SILT (ML)</u> , light orangish brown, moist, soft, micaceous		15	
20.0	<u>SANDY SILT (ML)</u> , reddish orange, moist, soft, micaceous		20	
25.0			25	
30.0			30	
35.0			35	
40.0	<u>SANDY SILT (ML)</u> , reddish orange, wet, soft, micaceous		40	
45.0	<u>SANDY SILT (ML)</u> , light brown, wet, soft, micaceous		45	
50.0			50	
55.0			55	
60.0			60	
65.0			65	
70.0	<u>PARTIALLY WEATHERED ROCK</u> , (No Cuttings)	66' to 68' - Bentonite Seal 68' to 80' - #2 Filter Sand	70	
75.0		70' to 80' - 2" (0.010) Slotted PVC	75	
80.0	<u>ROCK</u>		80	
85.0	Boring Terminated at 85 Feet		85	
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.		Hammer Type: Automatic		
Advancement Method: 4.25" Hollow Stem Auger / 4" Hammer		Notes:		
Abandonment Method:				
WATER LEVEL OBSERVATIONS		Well Started: 11/4/2013	Well Completed: 11/5/2013	
		Drill Rig: Gus Pech GP-1100E	Driller: R. Miller	
		Project No.: 86117104	Exhibit: B-4	

WELL LOG NO. MW-12

Page 1 of 1

PROJECT: Remedial Investigation		CLIENT: Castlebridge Properties, LLC Property		
SITE: 200 & 280 National Avenue Spartanburg, South Carolina				
GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS SAMPLE TYPE
DEPTH	MATERIAL DESCRIPTION	Well Completion: Surface Mount		
10.0	<u>SANDY SILT (ML)</u> , reddish brown, dry, stiff		5	
25.0	<u>SANDY SILT (ML)</u> , light brown, dry, stiff	Grouted to Surface	10	
29.0			15	
30.0	<u>SANDY SILT (ML)</u> , dark yellowish orange, wet, micaceous		20	
	<u>SANDY SILT (ML)</u> , yellowish brown, wet, soft, micaceous	31' to 33' - Bentonite Seal 33' to 45' - #2 Filter Sand	25	
40.0	<u>ROCK</u> , with fine to medium grained sand, gray, wet, micaceous	35' to 45' - 2" (0.010) Slotted PVC	30	
45.0			35	
	<i>Boring Terminated at 45 Feet</i>		40	
			45	
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.		Hammer Type: Automatic		
Advancement Method: 4.25" Hollow Stem Auger / 4" Hammer		Notes:		
Abandonment Method:				
WATER LEVEL OBSERVATIONS		Well Started: 11/5/2013	Well Completed: 11/6/2013	
		Drill Rig: Gus Pech GP-1100E	Driller: R. Miller	
		Project No.: 86117104	Exhibit: B-5	

WELL LOG NO. MW-13

Page 1 of 1

PROJECT: Remedial Investigation

CLIENT: Castlebridge Properties, LLC Property

**SITE: 200 & 280 National Avenue
Spartanburg, South Carolina**

GRAPHIC LOG	LOCATION See Exhibit A-2	DEPTH	MATERIAL DESCRIPTION	INSTALLATION DETAILS		WATER LEVEL OBSERVATIONS	SAMPLE TYPE							
				Well Completion: Surface Mount	DEPTH (ft)									
		0.5	<u>TOPSOIL</u> , dark yellowish orange <u>ROCK</u> , with coarse grained sand, gray, hard											
		8.0	<u>SANDY SILT (ML)</u> , light reddish brown, dry, stiff											
		15.0	<u>SANDY SILT (ML)</u> , light brown, dry, stiff											
		20.0	<u>SANDY SILT (ML)</u> , light brown, moist, soft, micaceous											
		30.0	<u>SANDY SILT (ML)</u> , light brown, wet, soft, micaceous											
		40.0	<u>ROCK</u> , with medium to coarse grained quartz, black, hard											
		45.0												
	<i>Boring Terminated at 45 Feet</i>													
The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.														
Hammer Type: Automatic														
Advancement Method: 4.25" Hollow Stem Auger / 4" Hammer				Notes:										
Abandonment Method:														
WATER LEVEL OBSERVATIONS				Well Started: 11/5/2013	Well Completed: 11/6/2013									
				Drill Rig: Gus Pech GP-1100E	Driller: R. Miller									
				Project No.: 86117104	Exhibit: B-6									

APPENDIX B

SC 1903 WELL FORMS



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name Castlebridge Properties (last) (first) Address 200 National Ave. City Spartanburg State S.C. Zip Telephone Work Home		7. PERMIT NUMBER: 8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement	
2. LOCATION OF WELL: COUNTY: Spartanburg Name: Castlebridge Properties Street Address: 200-280 National Avenue City: Spartanburg, Spartanburg Co. Latitude: 39.527596 Longitude: -99.141968		9. WELL DEPTH (completed) Date Started 11-4-13 80' ft Date Completed 11-5-13	
		10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam 2" Type <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 in to 70' ft depth _____ in to _____ ft depth	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-11		11. SCREEN: Type pvc Diam 2" Slot/Gauge .010 Length 10' Set Between 70' ft and 80' ft NOTE: MULTIPLE SCREENS _____ ft and _____ ft USE SECOND SHEET Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No	
		12. STATIC WATER LEVEL _____ ft below land surface after 24 hours	
4. ABANDONMENT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.		13. PUMPING LEVEL Below Land Surface _____ ft after _____ hrs Pumping _____ GPM Pumping Test <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield _____	
		14. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results	
Formation Description Orange to tan silt bed rock		15. ARTIFICIAL FILTER (filter pack) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 68' ft to 80' ft Effective size 20/30 Uniformity Coefficient _____	
		16. WELL GROUTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth From 0 ft to 66' ft	
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Amount _____	
		18. PUMP: Date installed _____ Not installed <input type="checkbox"/> Mfr Name _____ Model No _____ H.P. _____ Volts _____ Length of drop pipe _____ ft Capacity _____ gpm TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal	
5. REMARKS: Two feet bentonite seal from 66' to 68'		19. WELL DRILLER: Robert Miller CERT. NO.: Address (Print) SAEDACCO 9088 Northfield Drive Telephone No. (803) 548-2180 Fax No. (803) 548-2181	
		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief	
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other		Signed <u>Robert Miller</u> Date 11/9/2013 Well Driller If D Level Driller, provide supervising driller's name:	



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name Castlebridge Properties (last) (first) Address 200 National Ave. City Spartanburg State S.C. Zip Telephone Work Home		7. PERMIT NUMBER: 8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement	
		9. WELL DEPTH (completed) Date Started 11-5-13 45' ft Date Completed 11-6-13	
		10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam 2" Type <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 in to 35' ft depth in to _____ ft depth	
		Height Above/Below Surface _____ ft Weight _____ lb/ft Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-12		11. SCREEN: Type PVC Diam 2" Slot/Gauge .010 Length 10' Set Between 35' ft and 45' ft NOTE: MULTIPLE SCREENS _____ ft and _____ ft USE SECOND SHEET Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No	
4. ABANDONMENT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.		12. STATIC WATER LEVEL _____ ft below land surface after 24 hours	
		13. PUMPING LEVEL Below Land Surface _____ ft after _____ hrs Pumping _____ GPM Pumping Test <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield _____	
		14. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results	
		15. ARTIFICIAL FILTER (filter pack) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 33' ft to 45' ft Effective size 20/30 Uniformity Coefficient _____	
		16. WELL GROUTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth From 0 ft to 31' ft	
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Amount _____	
		18. PUMP: Date installed _____ Not installed <input type="checkbox"/> Mfr Name _____ Model No _____ H.P. _____ Volts _____ Length of drop pipe _____ ft Capacity _____ gpm TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal	
		19. WELL DRILLER: Robert Miller CERT. NO.: Address (Print) SAEDACCO 9088 Northfield Drive Telephone No (803) 548-2180 Fax No (803) 548-2181	
		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief	
		Signed <u>Robert Miller</u> Date 11/9/2013 Well Driller	
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other		If D Level Driller, provide supervising driller's name _____	



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name Castlebridge Properties (last) Castlebridge Properties (first) Address 200 National Ave.			7. PERMIT NUMBER:																																
City Spartanburg State S.C. Zip 			8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																
Telephone Work Home 			9. WELL DEPTH (completed) Date Started 11-5-13																																
			45' ft Date Completed 11-6-13																																
2. LOCATION OF WELL: COUNTY: Spartanburg Name: Castlebridge Properties Street Address: 200-280 National Avenue City Spartanburg, Spartanburg Co.			10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam 2" Type <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 _____ in to _____ ft depth _____ in to _____ ft depth																																
Latitude 39.527596 Longitude: -99.141968			Height Above/Below Surface _____ ft. Weight _____ lb /ft Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-13			11. SCREEN: pvc Type pvc Diam 2" Slot/Gauge .010 Length 10' Set Between 35' ft and 45' ft _____ Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No																																
4. ABANDONMENT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.			NOTE: MULTIPLE SCREENS USE SECOND SHEET																																
<table border="1"> <thead> <tr> <th>Formation Description</th> <th>*Thickness of Stratum</th> <th>Depth to Bottom of Stratum</th> </tr> </thead> <tbody> <tr> <td>rock</td> <td>0</td> <td>6'</td> </tr> <tr> <td>Orange Silt</td> <td>6'</td> <td>40'</td> </tr> <tr> <td>bed rock</td> <td>40'</td> <td>45'</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum	rock	0	6'	Orange Silt	6'	40'	bed rock	40'	45'																			12. STATIC WATER LEVEL _____ ft below land surface after 24 hours		
Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																																	
rock	0	6'																																	
Orange Silt	6'	40'																																	
bed rock	40'	45'																																	
			13. PUMPING LEVEL Below Land Surface ft after _____ hrs Pumping _____ GPM Pumping Test <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield _____																																
			14. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results																																
			15. ARTIFICIAL FILTER (filter pack) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 33' ft to 45' ft Effective size 20/30 Uniformity Coefficient _____																																
			16. WELL GROUTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth From 0 ft to 31' ft																																
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Amount _____																																
			18. PUMP: Date installed _____ Not installed <input type="checkbox"/> Mfr Name _____ Model No _____ H P _____ Volts _____ Length of drop pipe _____ ft Capacity _____ gpm TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal																																
			19. WELL DRILLER: Robert Miller CERT. NO.: Address (Print) SAEDACCO 9088 Northfield Drive Telephone No (803) 548-2180 Fax No (803) 548-2181																																
			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief																																
<p><i>R. Miller</i></p> <p>Signed R. Miller Well Driller</p>			Date 11/9/2013																																
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other			If D Level Driller, provide supervising driller's name:																																



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name Castlebridge Properties (last) 200 National Ave. (first) Address Spartanburg State S.C. Zip. Telephone Work Home			7. PERMIT NUMBER: 8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement		
2. LOCATION OF WELL: COUNTY: Spartanburg Name: Castlebridge Properties Street Address: 200-280 National Avenue City: Spartanburg, Spartanburg Co. Latitude: 39.527596 Longitude: -99.141968			9. WELL DEPTH (completed) Date Started 11-8-13 72' ft Date Completed 11-8-13		
			10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam 2" Type <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 in to 57' ft depth 0 in to ft ft depth		
			11. SCREEN: Type pvc Diam 2" Slot/Gauge .010 Length 10' Set Between 57' ft and 72' ft _____ Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No		
			12. STATIC WATER LEVEL _____ ft below land surface after 24 hours		
			13. PUMPING LEVEL Below Land Surface _____ ft after _____ hrs Pumping _____ GPM Pumping Test <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield _____		
			14. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results		
			15. ARTIFICIAL FILTER (filter pack) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 55' ft to 72' ft Effective size 20/30 Uniformity Coefficient _____		
			16. WELL GROUTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth From 0 ft to 53' ft		
			17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Amount _____		
			18. PUMP: Date installed _____ Not installed <input type="checkbox"/> Mfr Name _____ Model No _____ H P _____ Volts _____ Length of drop pipe _____ ft Capacity _____ gpm TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal		
			19. WELL DRILLER: Robert Miller CERT. NO.: Address (Print) SABDACCO Level A B C D (circle one) 9088 Northfield Drive		
			Telephone No (803) 548-2180 Fax No (803) 548-2181		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)			20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief		
5. REMARKS: Two feet bentonite seal from 53' to 55'			<i>Robert Miller</i> Signed Robert Miller Date 11/9/2013 Well Driller		
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other			If D Level Driller, provide supervising driller's name:		



Water Well Record

Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION: Name <input type="text"/> Castlebridge Properties (last) <input type="text"/> (first) <input type="text"/> Address <input type="text"/> 200 National Ave. City <input type="text"/> Spartanburg State <input type="text"/> S.C. Zip <input type="text"/>		7. PERMIT NUMBER: <input type="text"/>	
Telephone <input type="text"/> Work <input type="text"/> Home <input type="text"/>		8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement	
2. LOCATION OF WELL: COUNTY: Spartanburg Name: Castlebridge Properties Street Address: 200-280 National Avenue City: Spartanburg, Spartanburg Co. Latitude: 39.527596 Longitude: -99.141968		9. WELL DEPTH (completed) Date Started 11-7-13 57' ft Date Completed 11-7-13	
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: MW-9		10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam 2" Type <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 in to 17' ft depth _____ in to _____ ft depth	
4. ABANDONMENT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.		Height Above/Below Surface _____ ft Weight _____ lb/ft Drive Shoe? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Formation Description orange silt		*Thickness of Stratum 0	Depth to Bottom of Stratum 52'
bed rock		52'	57'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)			
5. REMARKS: Two feet bentonite seal from 43' to 45'			
6. TYPE: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input type="checkbox"/> Other		7. PERMIT NUMBER: <input type="text"/>	
If D Level Driller, provide supervising driller's name: <i>Robert Miller</i> Signed <input type="text"/> Well Driller		8. USE: <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement	
9. WELL DEPTH (completed) Date Started 11-7-13 57' ft Date Completed 11-7-13		10. CASING: <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam 2" Type <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other 0 in to 17' ft depth _____ in to _____ ft depth	
11. SCREEN: Type <input checked="" type="checkbox"/> PVC Diam 2" Slot/Gauge .010 Length 10' Set Between 47' ft and 57' ft _____ Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No		12. STATIC WATER LEVEL _____ ft below land surface after 24 hours	
13. PUMPING LEVEL Below Land Surface ft after _____ hrs Pumping _____ GPM Pumping Test <input type="checkbox"/> Yes (please enclose) <input checked="" type="checkbox"/> No Yield _____		14. WATER QUALITY Chemical Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Please enclose lab results	
15. ARTIFICIAL FILTER (filter pack) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from 45' ft to 57' ft Effective size 20/30 Uniformity Coefficient _____		16. WELL GROUTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth From 0 ft to 43' ft	
17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Type _____ Amount _____		18. PUMP: Date installed _____ Not installed <input type="checkbox"/> Mfr Name _____ Model No _____ H P _____ Volts _____ Length of drop pipe _____ ft Capacity _____ gpm TYPE <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal	
19. WELL DRILLER: Robert Miller CERT. NO.: Address (Print) SAEDACCO 9088 Northfield Drive Telephone No. (803) 548-2180 Fax No. (803) 548-2181		Level A B C D (circle one)	
20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief		<i>Robert Miller</i> Signed <input type="text"/> Well Driller Date 11/9/2013	

APPENDIX C

DISPOSAL MANIFEST

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number Terracon Consultants Inc.	2. Page 1 of 1	3. Job Number D-01101858	4. Waste Tracking Number 1858-1		
5. Generator's Name and Mailing Address Castlebridge Properties, LLC P.O. Box 128, Hazelwood, NC 28738				Generator's Site Address (if different than mailing address) 280 National Avenue Building Spartanburg, SC			
6. Generator's Phone: (864) 583-2717				U.S. EPA ID Number SCR000004358			
7. Transporter 1 Company Name JBR Environmental Services				U.S. EPA ID Number			
8. Designated Facility Name and Site Address JBR Environmental Services 210 Alice St. Spartanburg, SC 29303 (864) 583-2717				U.S. EPA ID Number			
9. Facility's Phone:							
GENERATOR	9. Waste Shipping Name and Description Non-DOT /Non-RCRA Regulated Material (Purge Water)		10. Contain. No. 5	Type DM	11. Total 2200	12. Unit P	16240
	11. Non-DOT/Non-RCRA Regulated Material (Soil Cuttings)		11 11	DM DM	7700	P	10370 lbs
	12. Non-DOT/Non-RCRA Regulated Material (Empty Container)		1 1	DM DM	75	P	5.167dn
	13. Special Handling Instructions and Additional Information 1) TC-1213183 2) TC- 1213184 3) N/A						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/packaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations		Signature Craig Eady		Month 10	Day 08	Year 14	
TRANSPORTER INT'L	15. International Shipments <input type="checkbox"/> Export to U.S. <input type="checkbox"/> Export from U.S.		Part of shipment _____ Date leaving U.S. _____				
	Transporter Signature (for exports only)						
	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Tom Crowley		Signature T. Crowley	Month 1	Day 10	Year 14	
TRANSPORTER	Transporter 2 Printed/Typed Name 		Signature 	Month 	Day 	Year 	
	17. Discrepancy 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection		Manifest Reference Number 				
	17b. Alternate Facility (or Generator) Facility's Phone: 17c. Signature of Alternate Facility (or Generator)				Month 	Day 	Year
18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17e Printed/Typed Name Scott Edwards		Signature Gen Ell	Month 11	Day 10	Year 14		

APPENDIX D
GROUNDWATER SAMPLING FIELD SHEETS

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Cathbridge
 Project Number: _____
 Location: _____
 Date Started: _____
 Date Completed: 11/18/13
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-1D
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: _____

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>50.25</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>27.35</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>22.90</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	<u>3.73</u>	Gal.	
3 Well Volumes:	<u>11.20</u>	Gal.	

FIELD MEASUREMENTS

Time:	1605	1625	1650				
Purge Volume (gallons):							
Total Volume (gallons):	<u>3.0</u>	<u>7.0</u>	<u>11.25</u>				
pH (s.u.):	<u>5.27</u>	<u>5.39</u>	<u>5.59</u>				
Conductivity ($\mu\text{Mhos/cm}$):	<u>0.037</u>	<u>0.037</u>	<u>0.036</u>				
Temperature ($^{\circ}\text{C}$):	<u>19.65</u>	<u>18.61</u>	<u>18.56</u>				
Turbidity (NTU):	<u>22.7</u>	<u>10.1</u>	<u>5.2</u>				
Dissolved Oxygen (mg/L):	<u>> 6.6</u>	<u>7.89</u>	<u>8.01</u>				
Depth to Water (Ft.):							

SAMPLE INFORMATION

Sampled By: RH
 Time: 1655

Additional Comments: * Duplicate taken here *

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/18
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-X 2D
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 70.5

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>54.70</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>24.95</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>29.75</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	<u>4.85</u>	Gal.	
3 Well Volumes:	<u>14.55</u>	Gal.	

FIELD MEASUREMENTS

Time:	1230	1235	1245	1250	1255	1300	1
Purge Volume (gallons):	;	;	;	;	;	;	;
Total Volume (gallons):	;	0.5	0.75	1.00	1.75		
pH (s.u.):	6.14	5.92	5.66	5.63	5.96	5.62	
Conductivity ($\mu\text{mhos/cm}$):	0.045	0.031	0.031	0.031	0.028	0.028	
Temperature ($^{\circ}\text{C}$):	24.3	22.60	22.33	22.00	22.46	22.00	
Turbidity (NTU):	36.4	25.0	16.6	11.8	9.0	9.0	
Dissolved Oxygen (mg/L):	15.74	9.76	9.73	8.28	9.01	9.59	
Depth to Water (Ft.):							

SAMPLE INFORMATION

Sampled By: RH
 Time: 1305

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: _____
 Date Completed: 11/18/13
 Sample ID #: _____

WELL INFORMATION

Well ID: MCR-3
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: _____

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>27.51</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>19.0</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>8.51</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			
1 Well Volume:	<u>1.39</u>	Gal.	CF 6-inch = 1.468
3 Well Volumes:	<u>4.17</u>	Gal.	

FIELD MEASUREMENTS

Time:	1835	1340	1345	1350	1355	1400	1405	1410	1415
Purge Volume (gallons):	1	0.25	0.50	0.75	1.00	1.25	1.5	1.75	2.00
Total Volume (gallons):	5.42	5.48	5.49	5.30	4.93	4.93	4.93	4.71	4.80
pH (s.u.):	0.64	0.041	0.041	0.040	0.039	0.039	0.038	0.040	0.040
Conductivity ($\mu\text{mhos/cm}$):	22.49	23.15	22.59	22.29	21.42	21.50	21.50	20.62	20.63
Temperature ($^{\circ}\text{C}$):	64.7	34.2	18.4	13.1	11.5	8.6.1	6.0.0	45.3	40.42
Turbidity (NTU):	12.58	9.01	8.06	7.89	7.91	8.16	7.96	8.01	7.94
Dissolved Oxygen (mg/L):									
Depth to Water (Ft.):									

SAMPLE INFORMATION

Sampled By: RH
 Time: 1425

Additional Comments:

1420
 20.42
 2.25
 4.79 pH
 0.043
 40.02
 7.94

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: _____
 Date Completed: 11/18/13
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-4
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 70°

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>17.43</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>12.51</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>4.92</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			
1 Well Volume:	<u>0.802</u>	Gal.	CF 6-Inch = 1.468
3 Well Volumes:	<u>2.41</u>	Gal.	

FIELD MEASUREMENTS

Time:	1425	1430	1435	1440	1445	1
Purge Volume (gallons):	i					
Total Volume (gallons):	i	0.25	0.50	0.75	1.00	
pH (s.u.):	5.02	5.03	5.09	5.11	5.22	
Conductivity ($\mu\text{mhos/cm}$):	0.035	0.034	0.034	0.032	0.035	
Temperature ($^{\circ}\text{C}$):	19.97	20.34	20.12	19.92	20.48	
Turbidity (NTU):	133	88.5	54.3	35.6	178	
Dissolved Oxygen (mg/L):	7.06	8.16	8.09	8.05	8.02	
Depth to Water (Ft.):						

SAMPLE INFORMATION

Sampled By: JRH
 Time: 1500

Additional Comments:

Well dry @ 1.0 gal.
- Sampled upon recharge
- Turbidity would not stabilize

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: _____
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-5
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: _____

VOLUME CALCULATIONS

		Conversion Factors (WC to Gallons)		
Total Well Depth (TWD):	<u>23.45</u>	Ft.	CF 2-inch =	0.163
Depth to Water (DTW):	<u>18.79</u>	Ft.	CF 4-inch =	0.652
Water Column (WC):	<u>4.66</u>	Ft.	CF 6-inch =	1.468
(Well Volume = WC x CF)				
1 Well Volume:	<u>0.76</u>	Gal.		
3 Well Volumes:	<u>2.28</u>	Gal.		

FIELD MEASUREMENTS

Time:	<u>1505</u>	<u>1510</u>	<u>1515</u>	<u>1520</u>	<u>1525</u>	<u>1530</u>	<u>1535</u>	<u>1540</u>
Purge Volume (gallons):	<u>1</u>	<u>0.25</u>	<u>0.50</u>	<u>0.75</u>	<u>1.00</u>	<u>1.25</u>	<u>1.50</u>	<u>1.75</u>
Total Volume (gallons):	<u>5.07</u>	<u>5.10</u>	<u>5.07</u>	<u>5.16</u>	<u>5.14</u>	<u>5.19</u>	<u>5.11</u>	<u>5.34</u>
pH (s.u.):	<u>0.028</u>	<u>0.027</u>	<u>0.028</u>	<u>0.028</u>	<u>0.027</u>	<u>0.027</u>	<u>0.027</u>	<u>0.027</u>
Conductivity ($\mu\text{mhos/cm}$):	<u>20.53</u>	<u>19.68</u>	<u>19.21</u>	<u>19.11</u>	<u>19.07</u>	<u>18.89</u>	<u>18.61</u>	<u>18.75</u>
Temperature ($^{\circ}\text{C}$):	<u>15.8</u>	<u>10.9</u>	<u>10.5</u>	<u>12.1</u>	<u>48.7</u>	<u>33.7</u>	<u>26.6</u>	<u>25.3</u>
Turbidity (NTU):	<u>8.21</u>	<u>3.54</u>	<u>8.51</u>	<u>8.78</u>	<u>8.30</u>	<u>8.49</u>	<u>8.21</u>	<u>8.46</u>
Dissolved Oxygen (mg/L):								
Depth to Water (Ft.):								

SAMPLE INFORMATION

Sampled By: ICH
 Time: 1545

Additional Comments: Field blank (FB #2) taken here @ 1550

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/18/13
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-6D
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: _____

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>53.83</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>28.42</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>25.41</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	<u>4.14</u>	Gal.	
3 Well Volumes:	<u>12.42</u>	Gal.	

FIELD MEASUREMENTS

Time:	1800	1803	1805	1807	1810		
Purge Volume (gallons):	16.0	1.0	1.0	1.0	1.0		
Total Volume (gallons):	16.0	17.0	18.0	19.0	20.0		
pH (s.u.):	5.32	5.31	5.33	5.38	5.39		
Conductivity (umhos/cm):	0.038	0.038	0.044	0.044	0.044		
Temperature (°C):	16.49	17.50	17.71	17.74	17.72		
Turbidity (NTU):	127	104	93	81.1	88.3		
Dissolved Oxygen (mg/L):	9.51	9.38	9.41	9.29	9.38		
Depth to Water (Ft.):							

SAMPLE INFORMATION

Sampled By: RH
 Time: 1815

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/13
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: m w - 70
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: 58.86
 Depth to Water: 18.05
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 40's

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>58.86</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>18.05</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>40.81</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	<u>6.65'</u>	Gal.	
3 Well Volumes:	<u>19.95</u>	Gal.	

FIELD MEASUREMENTS

Time:	1525	1533	15:38	15:45	1552		
Purge Volume (gallons):	I	8.0	7.0	8.0	3.0		
Total Volume (gallons):	I	8.0	15.0	23.0	25.0		
pH (s.u.):	5.72	5.90	5.96	5.80	5.98		
Conductivity (umhos/cm):	0.060	0.049	0.041	0.042	0.038		
Temperature (°C):	17.61	19.15	19.27	19.38	19.31		
Turbidity (NTU):	NIR	3.46	109	65.4	70.9		
Dissolved Oxygen (mg/L):	11.74	9.42	8.35	8.0	8.12		
Depth to Water (Ft.):	<u>18.05</u>						

SAMPLE INFORMATION

Sampled By: RH
 Time: 1555

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/13
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-8
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: 72.36
 Depth to Water: 19.89
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 40°5

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>72.36</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>19.89</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	_____	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			
1 Well Volume:	_____	Gal.	CF 6-inch = 1.468
3 Well Volumes:	_____	Gal.	

FIELD MEASUREMENTS

Time:	1620	1630	1640	1645			
Purge Volume (gallons):	I	0.5	0.5	0.25			
Total Volume (gallons):	I	0.5	1.0	0.25			
pH (s.u.):	8.00	9.32	9.47	9.50			
Conductivity (umhos/cm):	0.158	0.169	0.168	0.169			
Temperature (°C):	19.35	20.17	20.64	20.45			
Turbidity (NTU):	108	74.5	45.1	43.2			
Dissolved Oxygen (mg/L):	11.00	6.65	5.78	5.69			
Depth to Water (Ft.):	19.89						

SAMPLE INFORMATION

Sampled By: RH
 Time: 1650

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Cutterbridge
 Project Number: _____
 Location: _____
 Date Started: _____
 Date Completed: 11/18/13
 Sample ID #:

WELL INFORMATION

Well ID: MW - 9
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: _____

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>59.9</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>23.16</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>36.81</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	<u>6.00</u>	Gal.	
3 Well Volumes:	<u>18.00</u>	Gal.	

FIELD MEASUREMENTS

Time:	1700	1710	1720	1730	1740		
Purge Volume (gallons):	1						
Total Volume (gallons):	1						
pH (s.u.):	5.45	5.81	5.87	5.92			
Conductivity ($\mu\text{mhos/cm}$):	0.041	0.041	0.041	0.041			
Temperature ($^{\circ}\text{C}$):	17.36	17.26	17.24	17.16			
Turbidity (NTU):	61.8	52.5	49.7	43.1			
Dissolved Oxygen (mg/L):	18.20	18.71	10.51	10.49			
Depth to Water (Ft.):							

SAMPLE INFORMATION

Sampled By: RH
 Time: 1735

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: CastHebridge
 Project Number: _____
 Location: _____
 Date Started: _____
 Date Completed: 11/13/13
 Sample ID #:

WELL INFORMATION

Well ID: MW-10
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: _____
 Depth to Water: _____
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: _____

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>34.38</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>24.40</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	<u>9.98</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	<u>1.63</u>	Gal.	
3 Well Volumes:	<u>4.89</u>	Gal.	

FIELD MEASUREMENTS

Time:	1730	1740	1745	1750	1755		
Purge Volume (gallons):	<u>0.5</u>	<u>0.75</u>	<u>1.00</u>				
Total Volume (gallons):	<u>0.5</u>	<u>0.75</u>	<u>1.00</u>	<u>1.25</u>	<u>1.75</u>		
pH (s.u.):	<u>6.04</u>	<u>6.07</u>	<u>5.92</u>	<u>5.95</u>	<u>5.93</u>		
Conductivity (umhos/cm):	<u>0.042</u>	<u>0.043</u>	<u>0.042</u>	<u>0.042</u>	<u>0.042</u>		
Temperature (°C):	<u>16.32</u>	<u>16.23</u>	<u>16.21</u>	<u>16.19</u>	<u>16.18</u>		
Turbidity (NTU):	<u>9.5</u>	<u>4.6</u>	<u>1.4</u>	<u>0.8</u>	<u>0.3</u>		
Dissolved Oxygen (mg/L):	<u>10.16</u>	<u>9.86</u>	<u>9.96</u>	<u>9.67</u>	<u>9.48</u>		
Depth to Water (Ft.):							

SAMPLE INFORMATION

Sampled By: RH
 Time: 1800

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/13
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-11
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: 82.65
 Depth to Water: 14.92
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 30°5

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>82.65</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>14.92</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	_____	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			
1 Well Volume:	_____	Gal.	CF 6-inch = 1.468
3 Well Volumes:	_____	Gal.	

FIELD MEASUREMENTS

Time:	1320	1330	1340	1350	1		
Purge Volume (gallons):	i	1.0	1.0	1.0			
Total Volume (gallons):	i	1.0	2.0	3.0			
pH (s.u.):	6.50	6.41	6.39	6.37			
Conductivity ($\mu\text{mhos/cm}$):	0.162	0.173	0.163	0.155			
Temperature ($^{\circ}\text{C}$):	17.63	17.73	17.86	18.04			
Turbidity (NTU):	12.5	7.5	6.9	7.2			
Dissolved Oxygen (mg/L):	14.09	4.96	4.88	14.92			
Depth to Water (Ft.):							

SAMPLE INFORMATION

Sampled By: KH
 Time: 1355

Additional Comments:

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/13
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-12
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: 48.26
 Depth to Water: 16.08
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 40°5

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>48.26</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>16.08</u>	Ft.	CF 2-inch = 0.163
Water Column (WC):	_____	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			CF 6-inch = 1.468
1 Well Volume:	_____	Gal.	
3 Well Volumes:	_____	Gal.	

FIELD MEASUREMENTS

Time:	<u>1420</u>	<u>1425</u>	<u>1430</u>	<u>1435</u>	<u>1440</u>	<u>1445</u>	
Purge Volume (gallons):	<u>1</u>	<u>0.25</u>	<u>0.25</u>	<u>0.25</u>	<u>0.25</u>	<u>0.25</u>	
Total Volume (gallons):	<u>1</u>	<u>0.25</u>	<u>0.5</u>	<u>0.75</u>	<u>1.00</u>	<u>1.25</u>	
pH (s.u.):	<u>5.98</u>	<u>5.72</u>	<u>5.64</u>	<u>5.63</u>	<u>5.61</u>	<u>5.59</u>	
Conductivity ($\mu\text{mhos/cm}$):	<u>0.078</u>	<u>0.079</u>	<u>0.092</u>	<u>0.090</u>	<u>0.087</u>	<u>0.080</u>	
Temperature ($^{\circ}\text{C}$):	<u>19.64</u>	<u>19.08</u>	<u>18.76</u>	<u>18.57</u>	<u>18.53</u>	<u>18.41</u>	
Turbidity (NTU):	<u>26.7</u>	<u>24.4</u>	<u>23.0</u>	<u>22.4</u>	<u>19.7</u>	<u>19.8</u>	
Dissolved Oxygen (mg/L):	<u>6.98</u>	<u>5.74</u>	<u>5.09</u>	<u>5.23</u>	<u>4.86</u>	<u>4.70</u>	
Depth to Water (Ft.):	<u>16.08</u>						

SAMPLE INFORMATION

Sampled By: RH
 Time: 1450

Additional Comments: _____

GROUNDWATER SAMPLING FIELD SHEET

SITE INFORMATION

Facility Name: Castlebridge
 Project Number: _____
 Location: _____
 Date Started: 11/13
 Date Completed: _____
 Sample ID #: _____

WELL INFORMATION

Well ID: MW-13
 Casing Diameter: _____
 TOC Elev.: _____
 Total Well Depth: 47.5' (TOC)
 Depth to Water: 19.10' (TOC)
 GW Elevation: _____

WEATHER CONDITIONS

Weather Conditions (Circle): Clear Rain Windy Cloudy Hot Cold
 Air Temperature: 30.5

VOLUME CALCULATIONS

Total Well Depth (TWD):	<u>47.5</u>	Ft.	Conversion Factors (WC to Gallons)
Depth to Water (DTW):	<u>19.10</u>	Ft.	CF 2-Inch = 0.163
Water Column (WC):	<u>28.4</u>	Ft.	CF 4-inch = 0.652
(Well Volume = WC x CF)			
1 Well Volume:	<u>4.63</u>	Gal.	CF 6-Inch = 1.468
3 Well Volumes:	<u>13.89</u>	Gal.	

FIELD MEASUREMENTS

Time:	1200	1210	1220	1230			
Purge Volume (gallons):	<u>1</u>	<u>0.5</u>	<u>0.5</u>	<u>0.5</u>			
Total Volume (gallons):	<u>1</u>	<u>0.5</u>	<u>1.0</u>	<u>1.5</u>			
pH (s.u.):	<u>5.96</u>	<u>5.94</u>	<u>5.90</u>	<u>5.92</u>			
Conductivity ($\mu\text{mhos/cm}$):	<u>0.135</u>	<u>0.106</u>	<u>0.103</u>	<u>0.106</u>			
Temperature ($^{\circ}\text{C}$):	<u>15.96</u>	<u>16.51</u>	<u>16.71</u>	<u>16.82</u>			
Turbidity (NTU):	<u>21.5</u>	<u>21.5</u>	<u>26.4</u>	<u>21.8</u>			
Dissolved Oxygen (mg/L):	<u>9.01</u>	<u>7.43</u>	<u>8.01</u>	<u>7.83</u>			
Depth to Water (Ft.):	<u>19.10</u>						

SAMPLE INFORMATION

Sampled By: RH
 Time: 1235

Additional Comments: Field blank taken here c 1145.

APPENDIX E

LABORATORY ANALYTICAL REPORT



Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 04, 2013

Mr. Craig Eady
Terracon
3534 Rutherford Road
Taylors, SC 29687

RE: Project: CASTLEBRIDGE
Pace Project No.: 92180341

Dear Mr. Eady:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that appears to read 'Kevin Herring'.

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92180341001	MW-1D	Water	11/18/13 16:55	11/20/13 17:05
92180341002	MW-1D DUPLICATE	Water	11/18/13 16:55	11/20/13 17:05
92180341003	MW-2D	Water	11/18/13 13:05	11/20/13 17:05
92180341004	MW-3	Water	11/18/13 14:25	11/20/13 17:05
92180341005	MW-4	Water	11/18/13 15:00	11/20/13 17:05
92180341006	MW-5	Water	11/18/13 15:45	11/20/13 17:05
92180341007	MW-6D	Water	11/18/13 18:15	11/20/13 17:05
92180341008	MW-7D	Water	11/13/13 15:55	11/20/13 17:05
92180341009	MW-8	Water	11/13/13 16:50	11/20/13 17:05
92180341010	MW-9	Water	11/18/13 17:35	11/20/13 17:05
92180341011	MW-10	Water	11/18/13 18:00	11/20/13 17:05
92180341012	MW-11	Water	11/13/13 13:55	11/20/13 17:05
92180341013	MW-12	Water	11/13/13 14:50	11/20/13 17:05
92180341014	MW-13	Water	11/13/13 12:35	11/20/13 17:05
92180341015	FIELD BLANK	Water	11/13/13 11:45	11/20/13 17:05
92180341016	TRIP BLANK	Water	11/18/13 00:00	11/20/13 17:05

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SAMPLE ANALYTE COUNT

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92180341001	MW-1D	EPA 8260	MCK	62	PASI-C
92180341002	MW-1D DUPLICATE	EPA 8260	MCK	62	PASI-C
92180341003	MW-2D	EPA 8260	MCK	62	PASI-C
92180341004	MW-3	EPA 8260	MCK	62	PASI-C
92180341005	MW-4	EPA 8260	MCK	62	PASI-C
92180341006	MW-5	EPA 8260	MCK	62	PASI-C
92180341007	MW-6D	EPA 8260	MCK	62	PASI-C
92180341008	MW-7D	EPA 8260	MCK	62	PASI-C
92180341009	MW-8	EPA 8260	MCK	62	PASI-C
92180341010	MW-9	EPA 8260	MCK	62	PASI-C
92180341011	MW-10	EPA 8260	MCK	62	PASI-C
92180341012	MW-11	EPA 8260	MCK	62	PASI-C
92180341013	MW-12	EPA 8260	MCK	62	PASI-C
92180341014	MW-13	EPA 8260	MCK	62	PASI-C
92180341015	FIELD BLANK	EPA 8260	MCK	62	PASI-C
92180341016	TRIP BLANK	EPA 8260	MCK	62	PASI-C

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CASTLEBRIDGE
 Pace Project No.: 92180341

Method: EPA 8260
Description: 8260 MSV Low Level SC
Client: Terracon SC
Date: December 04, 2013

General Information:

16 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time.

- FIELD BLANK (Lab ID: 92180341015)
- MW-11 (Lab ID: 92180341012)
- MW-12 (Lab ID: 92180341013)
- MW-13 (Lab ID: 92180341014)
- MW-8 (Lab ID: 92180341009)

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/24992

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1091688)
 - 2-Butanone (MEK)
 - Acetone
 - Bromomethane

QC Batch: MSV/24993

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1091717)
 - Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Method: EPA 8260
Description: 8260 MSV Low Level SC
Client: Terracon SC
Date: December 04, 2013

QC Batch: MSV/25009

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1092925)
- 1,1-Dichloroethene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/24992

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92180224010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1091689)
 - Hexachloro-1,3-butadiene
 - Styrene
 - Tetrachloroethene
 - o-Xylene
- MSD (Lab ID: 1091690)
 - Hexachloro-1,3-butadiene
 - Styrene
 - Tetrachloroethene
 - o-Xylene

QC Batch: MSV/24993

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92179771034

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1091718)
 - 1,1,1,2-Tetrachloroethane
 - 1,1-Dichloropropene
 - 1,2,3-Trichlorobenzene
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloropropane
 - 1,3-Dichlorobenzene
 - 1,3-Dichloropropane
 - 1,4-Dichlorobenzene
 - 2-Chlorotoluene
 - 4-Chlorotoluene
 - Benzene
 - Dibromomethane
 - Hexachloro-1,3-butadiene
 - Naphthalene
 - Styrene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - cis-1,3-Dichloropropene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Method: EPA 8260
Description: 8260 MSV Low Level SC
Client: Terracon SC
Date: December 04, 2013

QC Batch: MSV/24993

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92179771034

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- o-Xylene
- p-Isopropyltoluene
- trans-1,3-Dichloropropene
- MSD (Lab ID: 1091719)
 - Hexachloro-1,3-butadiene
 - Tetrachloroethene
 - cis-1,3-Dichloropropene
 - o-Xylene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-1D Lab ID: 92180341001 Collected: 11/18/13 16:55 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 18:37	67-64-1	L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 18:37	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:37	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 18:37	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 18:37	75-27-4	
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 18:37	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 18:37	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 18:37	78-93-3	L2
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 18:37	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 18:37	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 18:37	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 18:37	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 18:37	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 18:37	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 18:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 18:37	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 18:37	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 18:37	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 18:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:37	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 18:37	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 18:37	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 18:37	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 18:37	75-35-4	
cis-1,2-Dichloroethene	1.2 ug/L		1.0	0.19	1		11/21/13 18:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 18:37	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 18:37	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 18:37	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 18:37	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 18:37	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 18:37	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 18:37	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 18:37	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 18:37	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 18:37	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 18:37	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 18:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 18:37	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 18:37	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 18:37	100-42-5	
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 18:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 18:37	79-34-5	
Tetrachloroethene	131 ug/L		1.0	0.46	1		11/21/13 18:37	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-1D	Lab ID: 92180341001	Collected: 11/18/13 16:55	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Toluene	ND ug/L		1.0	0.26	1		11/21/13 18:37	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:37	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 18:37	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 18:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 18:37	79-00-5	
Trichloroethene	0.95J ug/L		1.0	0.47	1		11/21/13 18:37	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 18:37	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 18:37	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 18:37	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 18:37	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 18:37	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 18:37	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 18:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103 %		70-130		1		11/21/13 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-130		1		11/21/13 18:37	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		11/21/13 18:37	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-1D DUPLICATE Lab ID: 92180341002 Collected: 11/18/13 16:55 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 18:53	67-64-1	L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 18:53	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:53	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 18:53	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 18:53	75-27-4	
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 18:53	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 18:53	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 18:53	78-93-3	L2
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 18:53	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 18:53	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 18:53	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 18:53	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 18:53	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 18:53	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 18:53	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 18:53	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 18:53	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:53	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 18:53	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:53	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 18:53	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 18:53	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 18:53	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 18:53	75-35-4	
cis-1,2-Dichloroethene	1.2 ug/L		1.0	0.19	1		11/21/13 18:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 18:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 18:53	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 18:53	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 18:53	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 18:53	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 18:53	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 18:53	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 18:53	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 18:53	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 18:53	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 18:53	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 18:53	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 18:53	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 18:53	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 18:53	79-34-5	
Tetrachloroethene	140 ug/L		1.0	0.46	1		11/21/13 18:53	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-1D DUPLICATE Lab ID: 92180341002 Collected: 11/18/13 16:55 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 18:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 18:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 18:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 18:53	79-00-5	
Trichloroethylene	0.94J ug/L		1.0	0.47	1		11/21/13 18:53	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 18:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 18:53	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 18:53	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 18:53	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 18:53	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 18:53	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 18:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105 %		70-130		1		11/21/13 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		70-130		1		11/21/13 18:53	17060-07-0	
Toluene-d8 (S)	94 %		70-130		1		11/21/13 18:53	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-2D	Lab ID: 92180341003	Collected: 11/18/13 13:05	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 19:09	67-64-1	L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 19:09	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 19:09	108-86-1	
Bromo-chloromethane	ND ug/L		1.0	0.17	1		11/21/13 19:09	74-97-5	
Bromo-dichloromethane	ND ug/L		1.0	0.18	1		11/21/13 19:09	75-27-4	
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 19:09	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 19:09	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 19:09	78-93-3	L2
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 19:09	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 19:09	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 19:09	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 19:09	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 19:09	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 19:09	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 19:09	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 19:09	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 19:09	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 19:09	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 19:09	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:09	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 19:09	75-71-8	
1,1-Dichloroethane	0.79J ug/L		1.0	0.32	1		11/21/13 19:09	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 19:09	107-06-2	
1,1-Dichloroethene	0.84J ug/L		1.0	0.56	1		11/21/13 19:09	75-35-4	
cis-1,2-Dichloroethene	6.4 ug/L		1.0	0.19	1		11/21/13 19:09	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 19:09	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 19:09	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 19:09	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 19:09	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 19:09	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 19:09	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 19:09	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 19:09	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 19:09	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 19:09	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 19:09	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 19:09	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 19:09	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 19:09	100-42-5	
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 19:09	79-34-5	
Tetrachloroethene	293 ug/L		5.0	2.3	5		11/25/13 15:37	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-2D	Lab ID: 92180341003	Collected: 11/18/13 13:05	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 19:09	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 19:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 19:09	79-00-5	
Trichloroethene	4.0 ug/L		1.0	0.47	1		11/21/13 19:09	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 19:09	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 19:09	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 19:09	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 19:09	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 19:09	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 19:09	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 19:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104 %		70-130		1		11/21/13 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-130		1		11/21/13 19:09	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		11/21/13 19:09	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-3	Lab ID: 92180341004	Collected: 11/18/13 14:25	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 19:25	67-64-1	L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 19:25	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 19:25	108-86-1	
Bromoform	ND ug/L		1.0	0.17	1		11/21/13 19:25	74-97-5	
Bromochloromethane	ND ug/L		1.0	0.18	1		11/21/13 19:25	75-27-4	
Bromodichloromethane	ND ug/L		1.0	0.26	1		11/21/13 19:25	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 19:25	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 19:25	78-93-3	L2
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 19:25	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 19:25	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 19:25	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 19:25	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 19:25	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 19:25	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 19:25	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 19:25	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 19:25	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 19:25	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 19:25	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:25	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 19:25	75-71-8	
cis-1,2-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 19:25	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 19:25	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 19:25	75-35-4	
cis-1,2-Dichloroethene	1.5 ug/L		1.0	0.19	1		11/21/13 19:25	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 19:25	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 19:25	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 19:25	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 19:25	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 19:25	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 19:25	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 19:25	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 19:25	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 19:25	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 19:25	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 19:25	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 19:25	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 19:25	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 19:25	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 19:25	100-42-5	
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 19:25	79-34-5	
Tetrachloroethene	37.7 ug/L		1.0	0.46	1		11/21/13 19:25	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-3 Lab ID: 92180341004 Collected: 11/18/13 14:25 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 19:25	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 19:25	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 19:25	79-00-5	
Trichloroethylene	1.2 ug/L		1.0	0.47	1		11/21/13 19:25	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 19:25	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 19:25	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 19:25	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 19:25	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 19:25	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 19:25	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 19:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104 %		70-130		1		11/21/13 19:25	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130		1		11/21/13 19:25	17060-07-0	
Toluene-d8 (S)	96 %		70-130		1		11/21/13 19:25	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-4	Lab ID: 92180341005	Collected: 11/18/13 15:00	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 19:41	67-64-1	L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 19:41	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 19:41	108-86-1	
Bromoform	ND ug/L		1.0	0.17	1		11/21/13 19:41	74-97-5	
Bromochloromethane	ND ug/L		1.0	0.18	1		11/21/13 19:41	75-27-4	
Bromodichloromethane	ND ug/L		1.0	0.26	1		11/21/13 19:41	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 19:41	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 19:41	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 19:41	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 19:41	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 19:41	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 19:41	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 19:41	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 19:41	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 19:41	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 19:41	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 19:41	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 19:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 19:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:41	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 19:41	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 19:41	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 19:41	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 19:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/21/13 19:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 19:41	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 19:41	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 19:41	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 19:41	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 19:41	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 19:41	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 19:41	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 19:41	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 19:41	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 19:41	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 19:41	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 19:41	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 19:41	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 19:41	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 19:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 19:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 19:41	79-34-5	
Tetrachloroethene	4.8 ug/L		1.0	0.46	1		11/21/13 19:41	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-4 Lab ID: 92180341005 Collected: 11/18/13 15:00 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 19:41	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:41	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 19:41	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 19:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 19:41	79-00-5	
Trichloroethene	ND ug/L		1.0	0.47	1		11/21/13 19:41	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 19:41	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 19:41	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 19:41	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 19:41	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 19:41	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 19:41	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 19:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102 %		70-130		1		11/21/13 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130		1		11/21/13 19:41	17060-07-0	
Toluene-d8 (S)	96 %		70-130		1		11/21/13 19:41	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-5	Lab ID: 92180341006	Collected: 11/18/13 15:45	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND ug/L	25.0	10.0	1			11/21/13 19:57	67-64-1	
Benzene	ND ug/L	1.0	0.25	1			11/21/13 19:57	71-43-2	
Bromobenzene	ND ug/L	1.0	0.30	1			11/21/13 19:57	108-86-1	
Bromo-chloromethane	ND ug/L	1.0	0.17	1			11/21/13 19:57	74-97-5	
Bromo-dichloromethane	ND ug/L	1.0	0.18	1			11/21/13 19:57	75-27-4	
Bromoform	ND ug/L	1.0	0.26	1			11/21/13 19:57	75-25-2	
Bromomethane	ND ug/L	5.0	0.29	1			11/21/13 19:57	74-83-9	L2
2-Butanone (MEK)	ND ug/L	5.0	0.96	1			11/21/13 19:57	78-93-3	
Carbon tetrachloride	ND ug/L	1.0	0.25	1			11/21/13 19:57	56-23-5	
Chlorobenzene	ND ug/L	1.0	0.23	1			11/21/13 19:57	108-90-7	
Chloroethane	ND ug/L	1.0	0.54	1			11/21/13 19:57	75-00-3	
Chloroform	ND ug/L	1.0	0.14	1			11/21/13 19:57	67-66-3	
Chloromethane	ND ug/L	1.0	0.11	1			11/21/13 19:57	74-87-3	
2-Chlorotoluene	ND ug/L	1.0	0.35	1			11/21/13 19:57	95-49-8	
4-Chlorotoluene	ND ug/L	1.0	0.31	1			11/21/13 19:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L	3.0	2.5	1			11/21/13 19:57	96-12-8	
Dibromochloromethane	ND ug/L	1.0	0.21	1			11/21/13 19:57	124-48-1	
Dibromomethane	ND ug/L	1.0	0.21	1			11/21/13 19:57	74-95-3	
1,2-Dichlorobenzene	ND ug/L	1.0	0.30	1			11/21/13 19:57	95-50-1	
1,3-Dichlorobenzene	ND ug/L	1.0	0.24	1			11/21/13 19:57	541-73-1	
1,4-Dichlorobenzene	ND ug/L	1.0	0.33	1			11/21/13 19:57	106-46-7	
Dichlorodifluoromethane	ND ug/L	1.0	0.21	1			11/21/13 19:57	75-71-8	
1,1-Dichloroethane	ND ug/L	1.0	0.32	1			11/21/13 19:57	75-34-3	
1,2-Dichloroethane	ND ug/L	1.0	0.12	1			11/21/13 19:57	107-06-2	
1,1-Dichloroethene	ND ug/L	1.0	0.56	1			11/21/13 19:57	75-35-4	
cis-1,2-Dichloroethene	ND ug/L	1.0	0.19	1			11/21/13 19:57	156-59-2	
trans-1,2-Dichloroethene	ND ug/L	1.0	0.49	1			11/21/13 19:57	156-60-5	
1,2-Dichloropropane	ND ug/L	1.0	0.27	1			11/21/13 19:57	78-87-5	
1,3-Dichloropropane	ND ug/L	1.0	0.28	1			11/21/13 19:57	142-28-9	
2,2-Dichloropropane	ND ug/L	1.0	0.13	1			11/21/13 19:57	594-20-7	
1,1-Dichloropropene	ND ug/L	1.0	0.49	1			11/21/13 19:57	563-58-6	
cis-1,3-Dichloropropene	ND ug/L	1.0	0.13	1			11/21/13 19:57	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L	1.0	0.26	1			11/21/13 19:57	10061-02-6	
Diisopropyl ether	ND ug/L	1.0	0.12	1			11/21/13 19:57	108-20-3	
Ethylbenzene	ND ug/L	1.0	0.30	1			11/21/13 19:57	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L	1.0	0.71	1			11/21/13 19:57	87-68-3	
2-Hexanone	ND ug/L	5.0	0.46	1			11/21/13 19:57	591-78-6	
p-Isopropyltoluene	ND ug/L	1.0	0.31	1			11/21/13 19:57	99-87-6	
Methylene Chloride	ND ug/L	2.0	0.97	1			11/21/13 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L	5.0	0.33	1			11/21/13 19:57	108-10-1	
Methyl-tert-butyl ether	ND ug/L	1.0	0.21	1			11/21/13 19:57	1634-04-4	
Naphthalene	ND ug/L	1.0	0.24	1			11/21/13 19:57	91-20-3	
Styrene	ND ug/L	1.0	0.26	1			11/21/13 19:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L	1.0	0.33	1			11/21/13 19:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L	1.0	0.40	1			11/21/13 19:57	79-34-5	
Tetrachloroethene	0.52J ug/L	1.0	0.46	1			11/21/13 19:57	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-5 Lab ID: 92180341006 Collected: 11/18/13 15:45 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 19:57	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 19:57	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 19:57	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 19:57	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 19:57	79-00-5	
Trichloroethene	ND ug/L		1.0	0.47	1		11/21/13 19:57	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 19:57	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 19:57	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 19:57	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 19:57	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 19:57	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 19:57	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 19:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102 %		70-130		1		11/21/13 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130		1		11/21/13 19:57	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		11/21/13 19:57	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-6D	Lab ID: 92180341007	Collected: 11/18/13 18:15	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 20:13	67-64-1	
Benzene	ND ug/L		1.0	0.25	1		11/21/13 20:13	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 20:13	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 20:13	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 20:13	75-27-4	
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 20:13	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 20:13	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 20:13	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 20:13	56-23-5	
Chlorobenzene	0.25J ug/L		1.0	0.23	1		11/21/13 20:13	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 20:13	75-00-3	
Chloroform	0.35J ug/L		1.0	0.14	1		11/21/13 20:13	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 20:13	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 20:13	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 20:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 20:13	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 20:13	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 20:13	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 20:13	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 20:13	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 20:13	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 20:13	75-71-8	
1,1-Dichloroethane	1.9 ug/L		1.0	0.32	1		11/21/13 20:13	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 20:13	107-06-2	
1,1-Dichloroethene	1.8 ug/L		1.0	0.56	1		11/21/13 20:13	75-35-4	
cis-1,2-Dichloroethene	37.6 ug/L		1.0	0.19	1		11/21/13 20:13	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 20:13	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 20:13	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 20:13	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 20:13	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 20:13	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 20:13	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 20:13	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 20:13	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 20:13	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 20:13	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 20:13	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 20:13	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 20:13	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 20:13	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 20:13	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 20:13	100-42-5	
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 20:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 20:13	79-34-5	
Tetrachloroethene	763 ug/L		20.0	9.2	20		11/25/13 15:05	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-6D Lab ID: 92180341007 Collected: 11/18/13 18:15 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 20:13	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 20:13	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 20:13	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 20:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 20:13	79-00-5	
Trichloroethylene	20.6 ug/L		1.0	0.47	1		11/21/13 20:13	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 20:13	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 20:13	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 20:13	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 20:13	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 20:13	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 20:13	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 20:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102 %		70-130		1		11/21/13 20:13	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		70-130		1		11/21/13 20:13	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		11/21/13 20:13	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-7D	Lab ID: 92180341008	Collected: 11/13/13 15:55	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/25/13 15:53	67-64-1	
Benzene	ND ug/L		1.0	0.25	1		11/25/13 15:53	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/25/13 15:53	108-86-1	
Bromoform	ND ug/L		1.0	0.17	1		11/25/13 15:53	74-97-5	
Bromochloromethane	ND ug/L		1.0	0.18	1		11/25/13 15:53	75-27-4	
Bromodichloromethane	ND ug/L		1.0	0.26	1		11/25/13 15:53	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/25/13 15:53	74-83-9	
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/25/13 15:53	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/25/13 15:53	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/25/13 15:53	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/25/13 15:53	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/25/13 15:53	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/25/13 15:53	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/25/13 15:53	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/25/13 15:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/25/13 15:53	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/25/13 15:53	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/25/13 15:53	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/25/13 15:53	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/25/13 15:53	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/25/13 15:53	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/25/13 15:53	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/25/13 15:53	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/25/13 15:53	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/25/13 15:53	75-35-4	L3
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/25/13 15:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/25/13 15:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/25/13 15:53	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/25/13 15:53	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/25/13 15:53	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/25/13 15:53	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/25/13 15:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/25/13 15:53	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/25/13 15:53	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/25/13 15:53	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/25/13 15:53	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/25/13 15:53	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/25/13 15:53	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/25/13 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/25/13 15:53	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/25/13 15:53	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/25/13 15:53	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/25/13 15:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/25/13 15:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/25/13 15:53	79-34-5	
Tetrachloroethene	2.5 ug/L		1.0	0.46	1		11/25/13 15:53	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-7D Lab ID: 92180341008 Collected: 11/13/13 15:55 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260									
Toluene	ND ug/L	1.0	0.26	1			11/25/13 15:53	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.33	1			11/25/13 15:53	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.35	1			11/25/13 15:53	120-82-1	
1,1,1-Trichloroethane	ND ug/L	1.0	0.48	1			11/25/13 15:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L	1.0	0.29	1			11/25/13 15:53	79-00-5	
Trichloroethene	ND ug/L	1.0	0.47	1			11/25/13 15:53	79-01-6	
Trichlorofluoromethane	ND ug/L	1.0	0.20	1			11/25/13 15:53	75-69-4	
1,2,3-Trichloropropane	ND ug/L	1.0	0.41	1			11/25/13 15:53	96-18-4	
Vinyl acetate	ND ug/L	2.0	0.35	1			11/25/13 15:53	108-05-4	
Vinyl chloride	ND ug/L	1.0	0.62	1			11/25/13 15:53	75-01-4	
Xylene (Total)	ND ug/L	2.0	0.66	1			11/25/13 15:53	1330-20-7	
m&p-Xylene	ND ug/L	2.0	0.66	1			11/25/13 15:53	179601-23-1	
o-Xylene	ND ug/L	1.0	0.23	1			11/25/13 15:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102 %	70-130		1			11/25/13 15:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %	70-130		1			11/25/13 15:53	17060-07-0	
Toluene-d8 (S)	96 %	70-130		1			11/25/13 15:53	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-8 Lab ID: 92180341009 Collected: 11/13/13 16:50 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 20:46	67-64-1	H1
Benzene	ND ug/L		1.0	0.25	1		11/21/13 20:46	71-43-2	H1
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 20:46	108-86-1	H1
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 20:46	74-97-5	H1
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 20:46	75-27-4	H1
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 20:46	75-25-2	H1
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 20:46	74-83-9	H1,L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 20:46	78-93-3	H1
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 20:46	56-23-5	H1
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 20:46	108-90-7	H1
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 20:46	75-00-3	H1
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 20:46	67-66-3	H1
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 20:46	74-87-3	H1
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 20:46	95-49-8	H1
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 20:46	106-43-4	H1
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 20:46	96-12-8	H1
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 20:46	124-48-1	H1
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 20:46	74-95-3	H1
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 20:46	95-50-1	H1
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 20:46	541-73-1	H1
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 20:46	106-46-7	H1
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 20:46	75-71-8	H1
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 20:46	75-34-3	H1
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 20:46	107-06-2	H1
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 20:46	75-35-4	H1
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/21/13 20:46	156-59-2	H1
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 20:46	156-60-5	H1
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 20:46	78-87-5	H1
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 20:46	142-28-9	H1
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 20:46	594-20-7	H1
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 20:46	563-58-6	H1
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 20:46	10061-01-5	H1
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 20:46	10061-02-6	H1
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 20:46	108-20-3	H1
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 20:46	100-41-4	H1
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 20:46	87-68-3	H1
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 20:46	591-78-6	H1
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 20:46	99-87-6	H1
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 20:46	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 20:46	108-10-1	H1
Methyl-tert-butyl ether	0.24J ug/L		1.0	0.21	1		11/21/13 20:46	1634-04-4	H1
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 20:46	91-20-3	H1
Styrene	ND ug/L		1.0	0.26	1		11/21/13 20:46	100-42-5	H1
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 20:46	630-20-6	H1
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 20:46	79-34-5	H1
Tetrachloroethene	ND ug/L		1.0	0.46	1		11/21/13 20:46	127-18-4	H1

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-8 Lab ID: 92180341009 Collected: 11/13/13 16:50 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 20:46	108-88-3	H1
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 20:46	87-61-6	H1
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 20:46	120-82-1	H1
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 20:46	71-55-6	H1
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 20:46	79-00-5	H1
Trichloroethene	ND ug/L		1.0	0.47	1		11/21/13 20:46	79-01-6	H1
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 20:46	75-69-4	H1
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 20:46	96-18-4	H1
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 20:46	108-05-4	H1
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 20:46	75-01-4	H1
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 20:46	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 20:46	179601-23-1	H1
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 20:46	95-47-6	H1
Surrogates									
4-Bromofluorobenzene (S)	103 %		70-130		1		11/21/13 20:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130		1		11/21/13 20:46	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		11/21/13 20:46	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-9 Lab ID: 92180341010 Collected: 11/18/13 17:35 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 21:02	67-64-1	
Benzene	ND ug/L		1.0	0.25	1		11/21/13 21:02	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:02	108-86-1	
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 21:02	74-97-5	
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 21:02	75-27-4	
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 21:02	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 21:02	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 21:02	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 21:02	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 21:02	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 21:02	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 21:02	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 21:02	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 21:02	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 21:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 21:02	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 21:02	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 21:02	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 21:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:02	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 21:02	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 21:02	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 21:02	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 21:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/21/13 21:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 21:02	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 21:02	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 21:02	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 21:02	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 21:02	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 21:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 21:02	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 21:02	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 21:02	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 21:02	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 21:02	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 21:02	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 21:02	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 21:02	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 21:02	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 21:02	100-42-5	
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 21:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 21:02	79-34-5	
Tetrachloroethene	1.0 ug/L		1.0	0.46	1		11/21/13 21:02	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-9	Lab ID: 92180341010	Collected: 11/18/13 17:35	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									Analytical Method: EPA 8260
Toluene	ND ug/L		1.0	0.26	1		11/21/13 21:02	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:02	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 21:02	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 21:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 21:02	79-00-5	
Trichloroethene	ND ug/L		1.0	0.47	1		11/21/13 21:02	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 21:02	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 21:02	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 21:02	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 21:02	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 21:02	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 21:02	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 21:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101 %		70-130		1		11/21/13 21:02	460-00-4	
1,2-Dichloroethane-d4 (S)	96 %		70-130		1		11/21/13 21:02	17060-07-0	
Toluene-d8 (S)	95 %		70-130		1		11/21/13 21:02	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-10	Lab ID: 92180341011	Collected: 11/18/13 18:00	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 21:18	67-64-1	
Benzene	ND ug/L		1.0	0.25	1		11/21/13 21:18	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:18	108-86-1	
Bromoform	ND ug/L		1.0	0.17	1		11/21/13 21:18	74-97-5	
Bromochloromethane	ND ug/L		1.0	0.18	1		11/21/13 21:18	75-27-4	
Bromodichloromethane	ND ug/L		1.0	0.26	1		11/21/13 21:18	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 21:18	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 21:18	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 21:18	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 21:18	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 21:18	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 21:18	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 21:18	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 21:18	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 21:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 21:18	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 21:18	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 21:18	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 21:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 21:18	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 21:18	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 21:18	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 21:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/21/13 21:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 21:18	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 21:18	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 21:18	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 21:18	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 21:18	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 21:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 21:18	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 21:18	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 21:18	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 21:18	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 21:18	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 21:18	99-87-6	
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 21:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 21:18	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 21:18	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 21:18	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 21:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 21:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 21:18	79-34-5	
Tetrachloroethene	0.75J ug/L		1.0	0.46	1		11/21/13 21:18	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-10 Lab ID: 92180341011 Collected: 11/18/13 18:00 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC Analytical Method: EPA 8260									
Toluene	ND ug/L		1.0	0.26	1		11/21/13 21:18	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:18	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 21:18	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 21:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 21:18	79-00-5	
Trichloroethene	ND ug/L		1.0	0.47	1		11/21/13 21:18	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 21:18	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 21:18	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 21:18	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 21:18	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 21:18	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 21:18	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 21:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103 %		70-130		1		11/21/13 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130		1		11/21/13 21:18	17060-07-0	
Toluene-d8 (S)	97 %		70-130		1		11/21/13 21:18	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-11	Lab ID: 92180341012	Collected: 11/13/13 13:55	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
Acetone	ND ug/L		25.0	10.0	1		11/21/13 21:34	67-64-1	H1
Benzene	ND ug/L		1.0	0.25	1		11/21/13 21:34	71-43-2	H1
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:34	108-86-1	H1
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 21:34	74-97-5	H1
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 21:34	75-27-4	H1
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 21:34	75-25-2	H1
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 21:34	74-83-9	H1,L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 21:34	78-93-3	H1
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 21:34	56-23-5	H1
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 21:34	108-90-7	H1
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 21:34	75-00-3	H1
Chloroform	0.99J ug/L		1.0	0.14	1		11/21/13 21:34	67-66-3	H1
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 21:34	74-87-3	H1
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 21:34	95-49-8	H1
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 21:34	106-43-4	H1
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 21:34	96-12-8	H1
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 21:34	124-48-1	H1
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 21:34	74-95-3	H1
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:34	95-50-1	H1
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 21:34	541-73-1	H1
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:34	106-46-7	H1
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 21:34	75-71-8	H1
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 21:34	75-34-3	H1
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 21:34	107-06-2	H1
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 21:34	75-35-4	H1
cis-1,2-Dichloroethene	0.21J ug/L		1.0	0.19	1		11/21/13 21:34	156-59-2	H1
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 21:34	156-60-5	H1
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 21:34	78-87-5	H1
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 21:34	142-28-9	H1
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 21:34	594-20-7	H1
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 21:34	563-58-6	H1
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 21:34	10061-01-5	H1
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 21:34	10061-02-6	H1
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 21:34	108-20-3	H1
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 21:34	100-41-4	H1
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 21:34	87-68-3	H1
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 21:34	591-78-6	H1
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 21:34	99-87-6	H1
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 21:34	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 21:34	108-10-1	H1
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 21:34	1634-04-4	H1
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 21:34	91-20-3	H1
Styrene	ND ug/L		1.0	0.26	1		11/21/13 21:34	100-42-5	H1
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 21:34	630-20-6	H1
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 21:34	79-34-5	H1
Tetrachloroethene	5.2 ug/L		1.0	0.46	1		11/21/13 21:34	127-18-4	H1

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-11 Lab ID: 92180341012 Collected: 11/13/13 13:55 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit			Prepared	Analyzed	CAS No.	Qual
			MDL	DF					
8260 MSV Low Level SC Analytical Method: EPA 8260									
Toluene	ND ug/L	1.0	0.26	1		11/21/13 21:34	108-88-3	H1	
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.33	1		11/21/13 21:34	87-61-6	H1	
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.35	1		11/21/13 21:34	120-82-1	H1	
1,1,1-Trichloroethane	ND ug/L	1.0	0.48	1		11/21/13 21:34	71-55-6	H1	
1,1,2-Trichloroethane	ND ug/L	1.0	0.29	1		11/21/13 21:34	79-00-5	H1	
Trichloroethene	ND ug/L	1.0	0.47	1		11/21/13 21:34	79-01-6	H1	
Trichlorofluoromethane	ND ug/L	1.0	0.20	1		11/21/13 21:34	75-69-4	H1	
1,2,3-Trichloropropane	ND ug/L	1.0	0.41	1		11/21/13 21:34	96-18-4	H1	
Vinyl acetate	ND ug/L	2.0	0.35	1		11/21/13 21:34	108-05-4	H1	
Vinyl chloride	ND ug/L	1.0	0.62	1		11/21/13 21:34	75-01-4	H1	
Xylene (Total)	ND ug/L	2.0	0.66	1		11/21/13 21:34	1330-20-7		
m&p-Xylene	ND ug/L	2.0	0.66	1		11/21/13 21:34	179601-23-1	H1	
o-Xylene	ND ug/L	1.0	0.23	1		11/21/13 21:34	95-47-6	H1	
Surrogates									
4-Bromofluorobenzene (S)	102 %	70-130		1		11/21/13 21:34	460-00-4		
1,2-Dichloroethane-d4 (S)	100 %	70-130		1		11/21/13 21:34	17060-07-0		
Toluene-d8 (S)	97 %	70-130		1		11/21/13 21:34	2037-26-5		

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-12	Lab ID: 92180341013	Collected: 11/13/13 14:50	Received: 11/20/13 17:05	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 21:50	67-64-1	H1
Benzene	ND ug/L		1.0	0.25	1		11/21/13 21:50	71-43-2	H1
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:50	108-86-1	H1
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 21:50	74-97-5	H1
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 21:50	75-27-4	H1
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 21:50	75-25-2	H1
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 21:50	74-83-9	H1,L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 21:50	78-93-3	H1
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 21:50	56-23-5	H1
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 21:50	108-90-7	H1
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 21:50	75-00-3	H1
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 21:50	67-66-3	H1
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 21:50	74-87-3	H1
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 21:50	95-49-8	H1
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 21:50	106-43-4	H1
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 21:50	96-12-8	H1
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 21:50	124-48-1	H1
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 21:50	74-95-3	H1
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 21:50	95-50-1	H1
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 21:50	541-73-1	H1
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:50	106-46-7	H1
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 21:50	75-71-8	H1
1,1-Dichloroethane	0.37J ug/L		1.0	0.32	1		11/21/13 21:50	75-34-3	H1
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 21:50	107-06-2	H1
1,1-Dichloroethene	0.67J ug/L		1.0	0.56	1		11/21/13 21:50	75-35-4	H1
cis-1,2-Dichloroethene	26.9 ug/L		1.0	0.19	1		11/21/13 21:50	156-59-2	H1
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 21:50	156-60-5	H1
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 21:50	78-87-5	H1
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 21:50	142-28-9	H1
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 21:50	594-20-7	H1
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 21:50	563-58-6	H1
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 21:50	10061-01-5	H1
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 21:50	10061-02-6	H1
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 21:50	108-20-3	H1
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 21:50	100-41-4	H1
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 21:50	87-68-3	H1
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 21:50	591-78-6	H1
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 21:50	99-87-6	H1
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 21:50	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 21:50	108-10-1	H1
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 21:50	1634-04-4	H1
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 21:50	91-20-3	H1
Styrene	ND ug/L		1.0	0.26	1		11/21/13 21:50	100-42-5	H1
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 21:50	630-20-6	H1
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 21:50	79-34-5	H1
Tetrachloroethene	365 ug/L		10.0	4.6	10		11/25/13 15:21	127-18-4	H1

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-12 Lab ID: 92180341013 Collected: 11/13/13 14:50 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC Analytical Method: EPA 8260									
Toluene	ND ug/L		1.0	0.26	1		11/21/13 21:50	108-88-3	H1
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 21:50	87-61-6	H1
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 21:50	120-82-1	H1
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 21:50	71-55-6	H1
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 21:50	79-00-5	H1
Trichloroethylene	33.4 ug/L		1.0	0.47	1		11/21/13 21:50	79-01-6	H1
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 21:50	75-69-4	H1
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 21:50	96-18-4	H1
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 21:50	108-05-4	H1
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 21:50	75-01-4	H1
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 21:50	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 21:50	179601-23-1	H1
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 21:50	95-47-6	H1
Surrogates									
4-Bromofluorobenzene (S)	101 %		70-130		1		11/21/13 21:50	460-00-4	
1,2-Dichloroethane-d4 (S)	94 %		70-130		1		11/21/13 21:50	17060-07-0	
Toluene-d8 (S)	106 %		70-130		1		11/21/13 21:50	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: MW-13 Lab ID: 92180341014 Collected: 11/13/13 12:35 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 22:06	67-64-1	H1
Benzene	ND ug/L		1.0	0.25	1		11/21/13 22:06	71-43-2	H1
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 22:06	108-86-1	H1
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 22:06	74-97-5	H1
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 22:06	75-27-4	H1
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 22:06	75-25-2	H1
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 22:06	74-83-9	H1,L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 22:06	78-93-3	H1
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 22:06	56-23-5	H1
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 22:06	108-90-7	H1
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 22:06	75-00-3	H1
Chloroform	0.21J ug/L		1.0	0.14	1		11/21/13 22:06	67-66-3	H1
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 22:06	74-87-3	H1
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 22:06	95-49-8	H1
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 22:06	106-43-4	H1
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 22:06	96-12-8	H1
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 22:06	124-48-1	H1
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 22:06	74-95-3	H1
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 22:06	95-50-1	H1
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 22:06	541-73-1	H1
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 22:06	106-46-7	H1
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 22:06	75-71-8	H1
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 22:06	75-34-3	H1
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 22:06	107-06-2	H1
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 22:06	75-35-4	H1
cis-1,2-Dichloroethene	1.3 ug/L		1.0	0.19	1		11/21/13 22:06	156-59-2	H1
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 22:06	156-60-5	H1
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 22:06	78-87-5	H1
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 22:06	142-28-9	H1
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 22:06	594-20-7	H1
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 22:06	563-58-6	H1
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 22:06	10061-01-5	H1
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 22:06	10061-02-6	H1
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 22:06	108-20-3	H1
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 22:06	100-41-4	H1
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 22:06	87-68-3	H1
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 22:06	591-78-6	H1
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 22:06	99-87-6	H1
Methylene Chloride	ND ug/L		2.0	0.97	1		11/21/13 22:06	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 22:06	108-10-1	H1
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 22:06	1634-04-4	H1
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 22:06	91-20-3	H1
Styrene	ND ug/L		1.0	0.26	1		11/21/13 22:06	100-42-5	H1
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 22:06	630-20-6	H1
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 22:06	79-34-5	H1
Tetrachloroethene	27.9 ug/L		1.0	0.46	1		11/21/13 22:06	127-18-4	H1

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: MW-13 Lab ID: 92180341014 Collected: 11/13/13 12:35 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 22:06	108-88-3	H1
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 22:06	87-61-6	H1
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 22:06	120-82-1	H1
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 22:06	71-55-6	H1
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 22:06	79-00-5	H1
Trichloroethene	0.78J ug/L		1.0	0.47	1		11/21/13 22:06	79-01-6	H1
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 22:06	75-69-4	H1
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 22:06	96-18-4	H1
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 22:06	108-05-4	H1
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 22:06	75-01-4	H1
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 22:06	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 22:06	179601-23-1	H1
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 22:06	95-47-6	H1
Surrogates									
4-Bromofluorobenzene (S)	103 %		70-130		1		11/21/13 22:06	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130		1		11/21/13 22:06	17060-07-0	
Toluene-d8 (S)	103 %		70-130		1		11/21/13 22:06	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

Sample: FIELD BLANK Lab ID: 92180341015 Collected: 11/13/13 11:45 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Acetone	ND ug/L		25.0	10.0	1		11/21/13 18:21	67-64-1	H1,L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 18:21	71-43-2	H1
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:21	108-86-1	H1
Bromochloromethane	ND ug/L		1.0	0.17	1		11/21/13 18:21	74-97-5	H1
Bromodichloromethane	ND ug/L		1.0	0.18	1		11/21/13 18:21	75-27-4	H1
Bromoform	ND ug/L		1.0	0.26	1		11/21/13 18:21	75-25-2	H1
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 18:21	74-83-9	H1,L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 18:21	78-93-3	H1,L2
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 18:21	56-23-5	H1
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 18:21	108-90-7	H1
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 18:21	75-00-3	H1
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 18:21	67-66-3	H1
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 18:21	74-87-3	H1
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 18:21	95-49-8	H1
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 18:21	106-43-4	H1
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 18:21	96-12-8	H1
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 18:21	124-48-1	H1
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 18:21	74-95-3	H1
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:21	95-50-1	H1
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 18:21	541-73-1	H1
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:21	106-46-7	H1
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 18:21	75-71-8	H1
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 18:21	75-34-3	H1
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 18:21	107-06-2	H1
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 18:21	75-35-4	H1
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/21/13 18:21	156-59-2	H1
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 18:21	156-60-5	H1
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 18:21	78-87-5	H1
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 18:21	142-28-9	H1
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 18:21	594-20-7	H1
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 18:21	563-58-6	H1
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 18:21	10061-01-5	H1
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 18:21	10061-02-6	H1
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 18:21	108-20-3	H1
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 18:21	100-41-4	H1
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 18:21	87-68-3	H1
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 18:21	591-78-6	H1
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 18:21	99-87-6	H1
Methylene Chloride	2.0 ug/L		2.0	0.97	1		11/21/13 18:21	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 18:21	108-10-1	H1
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 18:21	1634-04-4	H1
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 18:21	91-20-3	H1
Styrene	ND ug/L		1.0	0.26	1		11/21/13 18:21	100-42-5	H1
1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 18:21	630-20-6	H1
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 18:21	79-34-5	H1
Tetrachloroethene	ND ug/L		1.0	0.46	1		11/21/13 18:21	127-18-4	H1

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: FIELD BLANK Lab ID: 92180341015 Collected: 11/13/13 11:45 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC Analytical Method: EPA 8260									
Toluene	ND ug/L	1.0	0.26	1			11/21/13 18:21	108-88-3	H1
1,2,3-Trichlorobenzene	ND ug/L	1.0	0.33	1			11/21/13 18:21	87-61-6	H1
1,2,4-Trichlorobenzene	ND ug/L	1.0	0.35	1			11/21/13 18:21	120-82-1	H1
1,1,1-Trichloroethane	ND ug/L	1.0	0.48	1			11/21/13 18:21	71-55-6	H1
1,1,2-Trichloroethane	ND ug/L	1.0	0.29	1			11/21/13 18:21	79-00-5	H1
Trichloroethene	ND ug/L	1.0	0.47	1			11/21/13 18:21	79-01-6	H1
Trichlorofluoromethane	ND ug/L	1.0	0.20	1			11/21/13 18:21	75-69-4	H1
1,2,3-Trichloropropane	ND ug/L	1.0	0.41	1			11/21/13 18:21	96-18-4	H1
Vinyl acetate	ND ug/L	2.0	0.35	1			11/21/13 18:21	108-05-4	H1
Vinyl chloride	ND ug/L	1.0	0.62	1			11/21/13 18:21	75-01-4	H1
Xylene (Total)	ND ug/L	2.0	0.66	1			11/21/13 18:21	1330-20-7	
m&p-Xylene	ND ug/L	2.0	0.66	1			11/21/13 18:21	179601-23-1	H1
o-Xylene	ND ug/L	1.0	0.23	1			11/21/13 18:21	95-47-6	H1
Surrogates									
4-Bromofluorobenzene (S)	103 %	70-130		1			11/21/13 18:21	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %	70-130		1			11/21/13 18:21	17060-07-0	
Toluene-d8 (S)	96 %	70-130		1			11/21/13 18:21	2037-26-5	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: TRIP BLANK Lab ID: 92180341016 Collected: 11/18/13 00:00 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC Analytical Method: EPA 8260									
Acetone	ND ug/L		25.0	10.0	1		11/21/13 18:05	67-64-1	L2
Benzene	ND ug/L		1.0	0.25	1		11/21/13 18:05	71-43-2	
Bromobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:05	108-86-1	
Bromoform	ND ug/L		1.0	0.17	1		11/21/13 18:05	74-97-5	
Bromochloromethane	ND ug/L		1.0	0.18	1		11/21/13 18:05	75-27-4	
Bromodichloromethane	ND ug/L		1.0	0.26	1		11/21/13 18:05	75-25-2	
Bromomethane	ND ug/L		5.0	0.29	1		11/21/13 18:05	74-83-9	L2
2-Butanone (MEK)	ND ug/L		5.0	0.96	1		11/21/13 18:05	78-93-3	L2
Carbon tetrachloride	ND ug/L		1.0	0.25	1		11/21/13 18:05	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.23	1		11/21/13 18:05	108-90-7	
Chloroethane	ND ug/L		1.0	0.54	1		11/21/13 18:05	75-00-3	
Chloroform	ND ug/L		1.0	0.14	1		11/21/13 18:05	67-66-3	
Chloromethane	ND ug/L		1.0	0.11	1		11/21/13 18:05	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	0.35	1		11/21/13 18:05	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	0.31	1		11/21/13 18:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		3.0	2.5	1		11/21/13 18:05	96-12-8	
Dibromochloromethane	ND ug/L		1.0	0.21	1		11/21/13 18:05	124-48-1	
Dibromomethane	ND ug/L		1.0	0.21	1		11/21/13 18:05	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.30	1		11/21/13 18:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.24	1		11/21/13 18:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:05	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.21	1		11/21/13 18:05	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.32	1		11/21/13 18:05	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.12	1		11/21/13 18:05	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.56	1		11/21/13 18:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.19	1		11/21/13 18:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.49	1		11/21/13 18:05	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.27	1		11/21/13 18:05	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	0.28	1		11/21/13 18:05	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	0.13	1		11/21/13 18:05	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	0.49	1		11/21/13 18:05	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.13	1		11/21/13 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		11/21/13 18:05	10061-02-6	
Diisopropyl ether	ND ug/L		1.0	0.12	1		11/21/13 18:05	108-20-3	
Ethylbenzene	ND ug/L		1.0	0.30	1		11/21/13 18:05	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	0.71	1		11/21/13 18:05	87-68-3	
2-Hexanone	ND ug/L		5.0	0.46	1		11/21/13 18:05	591-78-6	
p-Isopropyltoluene	ND ug/L		1.0	0.31	1		11/21/13 18:05	99-87-6	
Methylene Chloride	1.7J ug/L		2.0	0.97	1		11/21/13 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5.0	0.33	1		11/21/13 18:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	0.21	1		11/21/13 18:05	1634-04-4	
Naphthalene	ND ug/L		1.0	0.24	1		11/21/13 18:05	91-20-3	
Styrene	ND ug/L		1.0	0.26	1		11/21/13 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	0.33	1		11/21/13 18:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.40	1		11/21/13 18:05	79-34-5	
Tetrachloroethene	ND ug/L		1.0	0.46	1		11/21/13 18:05	127-18-4	

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ANALYTICAL RESULTS

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Sample: TRIP BLANK Lab ID: 92180341016 Collected: 11/18/13 00:00 Received: 11/20/13 17:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC		Analytical Method: EPA 8260							
Toluene	ND ug/L		1.0	0.26	1		11/21/13 18:05	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	0.33	1		11/21/13 18:05	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	0.35	1		11/21/13 18:05	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	0.48	1		11/21/13 18:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.29	1		11/21/13 18:05	79-00-5	
Trichloroethylene	ND ug/L		1.0	0.47	1		11/21/13 18:05	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.20	1		11/21/13 18:05	75-69-4	
1,2,3-Trichloropropane	ND ug/L		1.0	0.41	1		11/21/13 18:05	96-18-4	
Vinyl acetate	ND ug/L		2.0	0.35	1		11/21/13 18:05	108-05-4	
Vinyl chloride	ND ug/L		1.0	0.62	1		11/21/13 18:05	75-01-4	
Xylene (Total)	ND ug/L		2.0	0.66	1		11/21/13 18:05	1330-20-7	
m&p-Xylene	ND ug/L		2.0	0.66	1		11/21/13 18:05	179601-23-1	
o-Xylene	ND ug/L		1.0	0.23	1		11/21/13 18:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104 %		70-130		1		11/21/13 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		70-130		1		11/21/13 18:05	17060-07-0	
Toluene-d8 (S)	96 %		70-130		1		11/21/13 18:05	2037-26-5	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

QC Batch: MSV/24992 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92180341001, 92180341002, 92180341003, 92180341004, 92180341005, 92180341015, 92180341016

METHOD BLANK: 1091687 Matrix: Water
Associated Lab Samples: 92180341001, 92180341002, 92180341003, 92180341004, 92180341005, 92180341015, 92180341016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/21/13 14:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/21/13 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/21/13 14:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/21/13 14:37	
1,1-Dichloroethane	ug/L	ND	1.0	11/21/13 14:37	
1,1-Dichloroethene	ug/L	ND	1.0	11/21/13 14:37	
1,1-Dichloropropene	ug/L	ND	1.0	11/21/13 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/21/13 14:37	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/21/13 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/21/13 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	11/21/13 14:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/21/13 14:37	
1,2-Dichloroethane	ug/L	ND	1.0	11/21/13 14:37	
1,2-Dichloropropane	ug/L	ND	1.0	11/21/13 14:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/21/13 14:37	
1,3-Dichloropropane	ug/L	ND	1.0	11/21/13 14:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/21/13 14:37	
2,2-Dichloropropane	ug/L	ND	1.0	11/21/13 14:37	
2-Butanone (MEK)	ug/L	ND	5.0	11/21/13 14:37	
2-Chlorotoluene	ug/L	ND	1.0	11/21/13 14:37	
2-Hexanone	ug/L	ND	5.0	11/21/13 14:37	
4-Chlorotoluene	ug/L	ND	1.0	11/21/13 14:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/21/13 14:37	
Acetone	ug/L	ND	25.0	11/21/13 14:37	
Benzene	ug/L	ND	1.0	11/21/13 14:37	
Bromobenzene	ug/L	ND	1.0	11/21/13 14:37	
Bromochloromethane	ug/L	ND	1.0	11/21/13 14:37	
Bromodichloromethane	ug/L	ND	1.0	11/21/13 14:37	
Bromoform	ug/L	ND	1.0	11/21/13 14:37	
Bromomethane	ug/L	ND	5.0	11/21/13 14:37	
Carbon tetrachloride	ug/L	ND	1.0	11/21/13 14:37	
Chlorobenzene	ug/L	ND	1.0	11/21/13 14:37	
Chloroethane	ug/L	ND	1.0	11/21/13 14:37	
Chloroform	ug/L	ND	1.0	11/21/13 14:37	
Chloromethane	ug/L	ND	1.0	11/21/13 14:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/21/13 14:37	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/21/13 14:37	
Dibromochloromethane	ug/L	ND	1.0	11/21/13 14:37	
Dibromomethane	ug/L	ND	1.0	11/21/13 14:37	
Dichlorodifluoromethane	ug/L	ND	1.0	11/21/13 14:37	
Diisopropyl ether	ug/L	ND	1.0	11/21/13 14:37	
Ethylbenzene	ug/L	ND	1.0	11/21/13 14:37	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/21/13 14:37	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE
Pace Project No.: 92180341

METHOD BLANK: 1091687

Matrix: Water

Associated Lab Samples: 92180341001, 92180341002, 92180341003, 92180341004, 92180341005, 92180341015, 92180341016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	ND	2.0	11/21/13 14:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/21/13 14:37	
Methylene Chloride	ug/L	ND	2.0	11/21/13 14:37	
Naphthalene	ug/L	ND	1.0	11/21/13 14:37	
o-Xylene	ug/L	ND	1.0	11/21/13 14:37	
p-Isopropyltoluene	ug/L	ND	1.0	11/21/13 14:37	
Styrene	ug/L	ND	1.0	11/21/13 14:37	
Tetrachloroethene	ug/L	ND	1.0	11/21/13 14:37	
Toluene	ug/L	ND	1.0	11/21/13 14:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/21/13 14:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/21/13 14:37	
Trichloroethene	ug/L	ND	1.0	11/21/13 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	11/21/13 14:37	
Vinyl acetate	ug/L	ND	2.0	11/21/13 14:37	
Vinyl chloride	ug/L	ND	1.0	11/21/13 14:37	
Xylene (Total)	ug/L	ND	2.0	11/21/13 14:37	
1,2-Dichloroethane-d4 (S)	%	92	70-130	11/21/13 14:37	
4-Bromofluorobenzene (S)	%	106	70-130	11/21/13 14:37	
Toluene-d8 (S)	%	95	70-130	11/21/13 14:37	

LABORATORY CONTROL SAMPLE: 1091688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	70-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	45.9	92	70-130	
1,1-Dichloroethene	ug/L	50	40.9	82	70-130	
1,1-Dichloropropene	ug/L	50	48.8	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.4	111	70-130	
1,2,3-Trichloropropane	ug/L	50	49.1	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	56.1	112	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.6	89	70-130	
1,2-Dichlorobenzene	ug/L	50	55.0	110	70-130	
1,2-Dichloroethane	ug/L	50	43.1	86	70-130	
1,2-Dichloropropane	ug/L	50	51.7	103	70-130	
1,3-Dichlorobenzene	ug/L	50	53.3	107	70-130	
1,3-Dichloropropane	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
2,2-Dichloropropane	ug/L	50	48.8	98	70-130	
2-Butanone (MEK)	ug/L	100	69.4	69	70-130 L0	
2-Chlorotoluene	ug/L	50	51.5	103	70-130	
2-Hexanone	ug/L	100	90.5	90	70-130	
4-Chlorotoluene	ug/L	50	52.4	105	70-130	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

LABORATORY CONTROL SAMPLE: 1091688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.9	88	70-130	
Acetone	ug/L	100	69.2	69	70-130	L0
Benzene	ug/L	50	49.7	99	70-130	
Bromobenzene	ug/L	50	48.3	97	70-130	
Bromochloromethane	ug/L	50	44.5	89	70-130	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	43.1	86	70-130	
Bromomethane	ug/L	50	30.7	61	70-130	L0
Carbon tetrachloride	ug/L	50	44.5	89	70-130	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	44.6	89	70-130	
Chloroform	ug/L	50	46.0	92	70-130	
Chloromethane	ug/L	50	42.9	86	70-130	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.1	108	70-130	
Dibromochloromethane	ug/L	50	44.8	90	70-130	
Dibromomethane	ug/L	50	50.2	100	70-130	
Dichlorodifluoromethane	ug/L	50	41.3	83	70-130	
Diisopropyl ether	ug/L	50	49.7	99	70-130	
Ethylbenzene	ug/L	50	48.9	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.7	109	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	49.2	98	70-130	
Methylene Chloride	ug/L	50	48.9	98	70-130	
Naphthalene	ug/L	50	50.6	101	70-130	
o-Xylene	ug/L	50	55.2	110	70-130	
p-Isopropyltoluene	ug/L	50	54.0	108	70-130	
Styrene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	53.5	107	70-130	
Toluene	ug/L	50	50.4	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.3	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	70-130	
Trichloroethene	ug/L	50	50.6	101	70-130	
Trichlorofluoromethane	ug/L	50	36.9	74	70-130	
Vinyl acetate	ug/L	100	90.5	90	70-130	
Vinyl chloride	ug/L	50	43.7	87	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1091689 1091690

Parameter	Units	MS Spike		MS Spike		MS		MS		MS		% Rec	
		92180224010	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	RPD	RPD	Qual	
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	62.2	61.7	124	123	70-130	1	30		
1,1,1-Trichloroethane	ug/L	ND	50	50	59.3	57.0	119	114	70-130	4	30		

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1091689		1091690		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
	Units	92180224010	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	54.4	55.2	109	110	70-130	1	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	59.2	58.6	118	117	70-130	1	30	
1,1-Dichloroethane	ug/L	ND	50	50	56.1	54.3	112	109	70-130	3	30	
1,1-Dichloroethene	ug/L	ND	50	50	62.7	57.3	125	115	70-130	9	30	
1,1-Dichloropropene	ug/L	ND	50	50	63.1	60.5	126	121	70-130	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	62.0	61.1	124	122	70-130	1	30	
1,2,3-Trichloropropane	ug/L	ND	50	50	55.1	57.9	110	116	70-130	5	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	64.0	62.4	128	125	70-130	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	51.0	53.2	102	106	70-130	4	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	64.4	63.2	129	126	70-130	2	30	
1,2-Dichloroethane	ug/L	ND	50	50	52.5	50.1	105	100	70-130	5	30	
1,2-Dichloropropane	ug/L	ND	50	50	61.7	60.7	123	121	70-130	2	30	
1,3-Dichlorobenzene	ug/L	ND	50	50	63.0	61.7	126	123	70-130	2	30	
1,3-Dichloropropane	ug/L	ND	50	50	63.5	61.8	127	124	70-130	3	30	
1,4-Dichlorobenzene	ug/L	ND	50	50	62.1	61.3	124	123	70-130	1	30	
2,2-Dichloropropane	ug/L	ND	50	50	60.8	58.0	122	116	70-130	5	30	
2-Butanone (MEK)	ug/L	ND	100	100	79.1	81.2	79	81	70-130	3	30	
2-Chlorotoluene	ug/L	ND	50	50	61.8	60.7	124	121	70-130	2	30	
2-Hexanone	ug/L	ND	100	100	103	110	103	110	70-130	6	30	
4-Chlorotoluene	ug/L	ND	50	50	63.0	61.1	126	122	70-130	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	94.2	101	94	101	70-130	7	30	
Acetone	ug/L	ND	100	100	80.7	85.2	79	84	70-130	5	30	
Benzene	ug/L	ND	50	50	59.9	58.8	120	118	70-130	2	30	
Bromobenzene	ug/L	ND	50	50	55.7	54.6	111	109	70-130	2	30	
Bromochloromethane	ug/L	ND	50	50	53.7	50.0	107	100	70-130	7	30	
Bromodichloromethane	ug/L	ND	50	50	57.2	56.5	114	113	70-130	1	30	
Bromoform	ug/L	ND	50	50	51.6	51.6	103	103	70-130	0	30	
Bromomethane	ug/L	ND	50	50	43.1	40.5	86	81	70-130	6	30	
Carbon tetrachloride	ug/L	ND	50	50	55.8	55.6	112	111	70-130	0	30	
Chlorobenzene	ug/L	ND	50	50	59.5	58.8	119	118	70-130	1	30	
Chloroethane	ug/L	ND	50	50	48.6	47.6	97	95	70-130	2	30	
Chloroform	ug/L	ND	50	50	57.1	53.5	114	107	70-130	7	30	
Chloromethane	ug/L	ND	50	50	53.5	51.2	107	102	70-130	4	30	
cis-1,2-Dichloroethene	ug/L	0.22J	50	50	57.1	55.5	114	111	70-130	3	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	63.8	62.5	128	125	70-130	2	30	
Dibromochloromethane	ug/L	ND	50	50	55.2	53.6	110	107	70-130	3	30	
Dibromomethane	ug/L	ND	50	50	59.1	58.7	118	117	70-130	1	30	
Dichlorodifluoromethane	ug/L	ND	50	50	59.1	57.7	118	115	70-130	2	30	
Diisopropyl ether	ug/L	ND	50	50	59.9	56.8	120	114	70-130	5	30	
Ethylbenzene	ug/L	ND	50	50	60.8	58.1	122	116	70-130	5	30	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	66.0	65.7	132	131	70-130	1	30	M1
m&p-Xylene	ug/L	ND	100	100	130	123	130	123	70-130	5	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	61.4	59.3	123	119	70-130	4	30	
Methylene Chloride	ug/L	ND	50	50	57.9	55.3	115	110	70-130	5	30	
Naphthalene	ug/L	ND	50	50	55.1	56.4	110	113	70-130	2	30	
o-Xylene	ug/L	ND	50	50	70.6	68.0	141	136	70-130	4	30	
p-Isopropyltoluene	ug/L	ND	50	50	65.1	64.0	130	128	70-130	2	30	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Parameter	Units	92180224010		MS		MSD		1091690		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Styrene	ug/L	ND	50	50	68.9	66.2	138	132	70-130	4	30	M1	
Tetrachloroethene	ug/L	1.4	50	50	68.9	68.2	135	134	70-130	1	30	M1	
Toluene	ug/L	ND	50	50	57.8	58.3	116	117	70-130	1	30		
trans-1,2-Dichloroethene	ug/L	ND	50	50	59.5	57.3	119	115	70-130	4	30		
trans-1,3-Dichloropropene	ug/L	ND	50	50	60.4	59.2	121	118	70-130	2	30		
Trichloroethylene	ug/L	ND	50	50	60.5	59.8	121	120	70-130	1	30		
Trichlorofluoromethane	ug/L	ND	50	50	50.6	48.9	101	98	70-130	3	30		
Vinyl acetate	ug/L	ND	100	100	106	103	106	103	70-130	2	30		
Vinyl chloride	ug/L	ND	50	50	59.6	58.2	119	116	70-130	2	30		
1,2-Dichloroethane-d4 (S)	%								97	94	70-130		
4-Bromofluorobenzene (S)	%								110	107	70-130		
Toluene-d8 (S)	%								97	99	70-130		

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

QC Batch:	MSV/24993	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level SC
Associated Lab Samples:	92180341006, 92180341007, 92180341009, 92180341010, 92180341011, 92180341012, 92180341013, 92180341014		

METHOD BLANK:	1091716	Matrix:	Water
Associated Lab Samples:	92180341006, 92180341007, 92180341009, 92180341010, 92180341011, 92180341012, 92180341013, 92180341014		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/21/13 14:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/21/13 14:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/21/13 14:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/21/13 14:21	
1,1-Dichloroethane	ug/L	ND	1.0	11/21/13 14:21	
1,1-Dichloroethene	ug/L	ND	1.0	11/21/13 14:21	
1,1-Dichloropropene	ug/L	ND	1.0	11/21/13 14:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/21/13 14:21	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/21/13 14:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/21/13 14:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	11/21/13 14:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/21/13 14:21	
1,2-Dichloroethane	ug/L	ND	1.0	11/21/13 14:21	
1,2-Dichloropropane	ug/L	ND	1.0	11/21/13 14:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/21/13 14:21	
1,3-Dichloropropane	ug/L	ND	1.0	11/21/13 14:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/21/13 14:21	
2,2-Dichloropropane	ug/L	ND	1.0	11/21/13 14:21	
2-Butanone (MEK)	ug/L	ND	5.0	11/21/13 14:21	
2-Chlorotoluene	ug/L	ND	1.0	11/21/13 14:21	
2-Hexanone	ug/L	ND	5.0	11/21/13 14:21	
4-Chlorotoluene	ug/L	ND	1.0	11/21/13 14:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/21/13 14:21	
Acetone	ug/L	ND	25.0	11/21/13 14:21	
Benzene	ug/L	ND	1.0	11/21/13 14:21	
Bromobenzene	ug/L	ND	1.0	11/21/13 14:21	
Bromochloromethane	ug/L	ND	1.0	11/21/13 14:21	
Bromodichloromethane	ug/L	ND	1.0	11/21/13 14:21	
Bromoform	ug/L	ND	1.0	11/21/13 14:21	
Bromomethane	ug/L	ND	5.0	11/21/13 14:21	
Carbon tetrachloride	ug/L	ND	1.0	11/21/13 14:21	
Chlorobenzene	ug/L	ND	1.0	11/21/13 14:21	
Chloroethane	ug/L	ND	1.0	11/21/13 14:21	
Chloroform	ug/L	ND	1.0	11/21/13 14:21	
Chloromethane	ug/L	ND	1.0	11/21/13 14:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/21/13 14:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/21/13 14:21	
Dibromochloromethane	ug/L	ND	1.0	11/21/13 14:21	
Dibromomethane	ug/L	ND	1.0	11/21/13 14:21	
Dichlorodifluoromethane	ug/L	ND	1.0	11/21/13 14:21	
Diisopropyl ether	ug/L	ND	1.0	11/21/13 14:21	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

METHOD BLANK: 1091716

Matrix: Water

Associated Lab Samples: 92180341006, 92180341007, 92180341009, 92180341010, 92180341011, 92180341012, 92180341013,
92180341014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	11/21/13 14:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/21/13 14:21	
m&p-Xylene	ug/L	ND	2.0	11/21/13 14:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/21/13 14:21	
Methylene Chloride	ug/L	ND	2.0	11/21/13 14:21	
Naphthalene	ug/L	ND	1.0	11/21/13 14:21	
o-Xylene	ug/L	ND	1.0	11/21/13 14:21	
p-Isopropyltoluene	ug/L	ND	1.0	11/21/13 14:21	
Styrene	ug/L	ND	1.0	11/21/13 14:21	
Tetrachloroethene	ug/L	ND	1.0	11/21/13 14:21	
Toluene	ug/L	ND	1.0	11/21/13 14:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/21/13 14:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/21/13 14:21	
Trichloroethene	ug/L	ND	1.0	11/21/13 14:21	
Trichlorofluoromethane	ug/L	ND	1.0	11/21/13 14:21	
Vinyl acetate	ug/L	ND	2.0	11/21/13 14:21	
Vinyl chloride	ug/L	ND	1.0	11/21/13 14:21	
Xylene (Total)	ug/L	ND	2.0	11/21/13 14:21	
1,2-Dichloroethane-d4 (S)	%	93	70-130	11/21/13 14:21	
4-Bromofluorobenzene (S)	%	107	70-130	11/21/13 14:21	
Toluene-d8 (S)	%	96	70-130	11/21/13 14:21	

LABORATORY CONTROL SAMPLE: 1091717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.6	101	70-130	
1,1,1-Trichloroethane	ug/L	50	47.6	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	46.1	92	70-130	
1,1-Dichloroethene	ug/L	50	42.3	85	70-130	
1,1-Dichloropropene	ug/L	50	50.5	101	70-130	
1,2,3-Trichlorobenzene	ug/L	50	56.7	113	70-130	
1,2,3-Trichloropropane	ug/L	50	49.8	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	58.2	116	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.2	94	70-130	
1,2-Dichlorobenzene	ug/L	50	56.0	112	70-130	
1,2-Dichloroethane	ug/L	50	43.6	87	70-130	
1,2-Dichloropropane	ug/L	50	53.2	106	70-130	
1,3-Dichlorobenzene	ug/L	50	55.1	110	70-130	
1,3-Dichloropropane	ug/L	50	52.6	105	70-130	
1,4-Dichlorobenzene	ug/L	50	54.4	109	70-130	
2,2-Dichloropropane	ug/L	50	49.7	99	70-130	
2-Butanone (MEK)	ug/L	100	74.8	75	70-130	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

LABORATORY CONTROL SAMPLE: 1091717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	53.3	107	70-130	
2-Hexanone	ug/L	100	94.4	94	70-130	
4-Chlorotoluene	ug/L	50	53.8	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.3	91	70-130	
Acetone	ug/L	100	75.4	75	70-130	
Benzene	ug/L	50	51.0	102	70-130	
Bromobenzene	ug/L	50	50.0	100	70-130	
Bromochloromethane	ug/L	50	44.5	89	70-130	
Bromodichloromethane	ug/L	50	49.2	98	70-130	
Bromoform	ug/L	50	43.5	87	70-130	
Bromomethane	ug/L	50	28.3	57	70-130 L0	
Carbon tetrachloride	ug/L	50	46.5	93	70-130	
Chlorobenzene	ug/L	50	50.2	100	70-130	
Chloroethane	ug/L	50	43.4	87	70-130	
Chloroform	ug/L	50	47.6	95	70-130	
Chloromethane	ug/L	50	42.4	85	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	45.0	90	70-130	
Dibromomethane	ug/L	50	50.8	102	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	70-130	
Diisopropyl ether	ug/L	50	50.2	100	70-130	
Ethylbenzene	ug/L	50	49.3	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	57.4	115	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	51.6	103	70-130	
Methylene Chloride	ug/L	50	48.6	97	70-130	
Naphthalene	ug/L	50	53.4	107	70-130	
o-Xylene	ug/L	50	54.5	109	70-130	
p-Isopropyltoluene	ug/L	50	55.8	112	70-130	
Styrene	ug/L	50	54.2	108	70-130	
Tetrachloroethene	ug/L	50	53.5	107	70-130	
Toluene	ug/L	50	51.1	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.6	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	38.4	77	70-130	
Vinyl acetate	ug/L	100	90.4	90	70-130	
Vinyl chloride	ug/L	50	43.2	86	70-130	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Parameter	Units	92179771034		1091718		MS		MSD		1091719		% Rec	Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MSD % Rec	MSD % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	65.5	60.9	131	122	70-130	70-130	70-130	7	70-130	7	30	M1
1,1,1-Trichloroethane	ug/L	ND	50	50	62.2	57.3	124	115	70-130	70-130	70-130	8	70-130	8	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	61.2	56.5	122	113	70-130	70-130	70-130	8	70-130	8	30	
1,1,2-Trichloroethane	ug/L	ND	50	50	65.1	59.6	130	119	70-130	70-130	70-130	9	70-130	9	30	
1,1-Dichloroethane	ug/L	ND	50	50	58.7	54.9	117	110	70-130	70-130	70-130	7	70-130	7	30	
1,1-Dichloroethene	ug/L	ND	50	50	59.7	51.1	119	102	70-130	70-130	70-130	16	70-130	16	30	
1,1-Dichloropropene	ug/L	ND	50	50	65.4	61.0	131	122	70-130	70-130	70-130	7	70-130	7	30	M1
1,2,3-Trichlorobenzene	ug/L	ND	50	50	69.6	62.8	139	126	70-130	70-130	70-130	10	70-130	10	30	M1
1,2,3-Trichloropropane	ug/L	ND	50	50	62.4	57.5	125	115	70-130	70-130	70-130	8	70-130	8	30	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	70.5	63.9	141	128	70-130	70-130	70-130	10	70-130	10	30	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	59.9	52.2	120	104	70-130	70-130	70-130	14	70-130	14	30	
1,2-Dichlorobenzene	ug/L	ND	50	50	71.0	64.5	142	129	70-130	70-130	70-130	10	70-130	10	30	M1
1,2-Dichloroethane	ug/L	ND	50	50	54.2	49.8	108	100	70-130	70-130	70-130	9	70-130	9	30	
1,2-Dichloropropane	ug/L	ND	50	50	67.0	62.3	134	125	70-130	70-130	70-130	7	70-130	7	30	M1
1,3-Dichlorobenzene	ug/L	ND	50	50	68.3	62.6	137	125	70-130	70-130	70-130	9	70-130	9	30	M1
1,3-Dichloropropane	ug/L	ND	50	50	66.2	60.2	132	120	70-130	70-130	70-130	9	70-130	9	30	M1
1,4-Dichlorobenzene	ug/L	ND	50	50	67.7	62.0	135	124	70-130	70-130	70-130	9	70-130	9	30	M1
2,2-Dichloropropane	ug/L	ND	50	50	64.1	58.5	128	117	70-130	70-130	70-130	9	70-130	9	30	
2-Butanone (MEK)	ug/L	ND	100	100	85.7	78.2	86	78	70-130	70-130	70-130	9	70-130	9	30	
2-Chlorotoluene	ug/L	ND	50	50	67.3	60.8	135	122	70-130	70-130	70-130	10	70-130	10	30	M1
2-Hexanone	ug/L	ND	100	100	114	105	114	105	70-130	70-130	70-130	9	70-130	9	30	
4-Chlorotoluene	ug/L	ND	50	50	66.4	62.6	133	125	70-130	70-130	70-130	6	70-130	6	30	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	112	102	112	102	70-130	70-130	70-130	10	70-130	10	30	
Acetone	ug/L	ND	100	100	86.9	75.7	85	74	70-130	70-130	70-130	14	70-130	14	30	
Benzene	ug/L	ND	50	50	66.9	62.1	134	124	70-130	70-130	70-130	7	70-130	7	30	M1
Bromobenzene	ug/L	ND	50	50	62.1	57.2	124	114	70-130	70-130	70-130	8	70-130	8	30	
Bromochloromethane	ug/L	ND	50	50	53.7	51.6	107	103	70-130	70-130	70-130	4	70-130	4	30	
Bromodichloromethane	ug/L	ND	50	50	62.9	58.2	126	116	70-130	70-130	70-130	8	70-130	8	30	
Bromoform	ug/L	ND	50	50	55.6	50.7	111	101	70-130	70-130	70-130	9	70-130	9	30	
Bromomethane	ug/L	ND	50	50	44.3	40.4	89	81	70-130	70-130	70-130	9	70-130	9	30	
Carbon tetrachloride	ug/L	ND	50	50	62.0	57.1	124	114	70-130	70-130	70-130	8	70-130	8	30	
Chlorobenzene	ug/L	ND	50	50	65.2	60.3	130	121	70-130	70-130	70-130	8	70-130	8	30	
Chloroethane	ug/L	ND	50	50	54.9	53.3	110	107	70-130	70-130	70-130	3	70-130	3	30	
Chloroform	ug/L	ND	50	50	58.9	55.4	118	111	70-130	70-130	70-130	6	70-130	6	30	
Chloromethane	ug/L	ND	50	50	53.7	50.9	107	102	70-130	70-130	70-130	5	70-130	5	30	
cis-1,2-Dichloroethene	ug/L	ND	50	50	60.0	55.3	120	111	70-130	70-130	70-130	8	70-130	8	30	
cis-1,3-Dichloropropene	ug/L	ND	50	50	71.3	65.8	143	132	70-130	70-130	70-130	8	70-130	8	30	M1
Dibromochloromethane	ug/L	ND	50	50	57.1	53.2	114	106	70-130	70-130	70-130	7	70-130	7	30	
Dibromomethane	ug/L	ND	50	50	65.7	59.5	131	119	70-130	70-130	70-130	10	70-130	10	30	M1
Dichlorodifluoromethane	ug/L	ND	50	50	61.9	58.8	124	118	70-130	70-130	70-130	5	70-130	5	30	
Diisopropyl ether	ug/L	ND	50	50	62.3	57.7	125	115	70-130	70-130	70-130	8	70-130	8	30	
Ethylbenzene	ug/L	ND	50	50	62.9	59.2	126	118	70-130	70-130	70-130	6	70-130	6	30	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	73.3	67.2	147	134	70-130	70-130	70-130	9	70-130	9	30	M1
m&p-Xylene	ug/L	ND	100	100	130	122	130	122	70-130	70-130	70-130	6	70-130	6	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	64.2	58.4	128	117	70-130	70-130	70-130	9	70-130	9	30	
Methylene Chloride	ug/L	ND	50	50	60.5	55.1	120	109	70-130	70-130	70-130	9	70-130	9	30	
Naphthalene	ug/L	ND	50	50	66.9	59.5	134	119	70-130	70-130	70-130	12	70-130	12	30	M1

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Parameter	Units	92179771034		MS		MSD		1091719		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
o-Xylene	ug/L	ND	50	50	70.9	66.6	142	133	70-130	6	30	M1	
p-Isopropyltoluene	ug/L	ND	50	50	68.9	63.2	138	126	70-130	9	30	M1	
Styrene	ug/L	ND	50	50	69.0	64.9	138	130	70-130	6	30	M1	
Tetrachloroethene	ug/L	ND	50	50	69.8	65.9	140	132	70-130	6	30	M1	
Toluene	ug/L	ND	50	50	66.3	61.3	133	123	70-130	8	30	M1	
trans-1,2-Dichloroethene	ug/L	ND	50	50	60.8	56.7	122	113	70-130	7	30		
trans-1,3-Dichloropropene	ug/L	ND	50	50	66.0	60.2	132	120	70-130	9	30	M1	
Trichloroethene	ug/L	ND	50	50	66.2	61.2	132	122	70-130	8	30	M1	
Trichlorofluoromethane	ug/L	ND	50	50	53.8	49.7	108	99	70-130	8	30		
Vinyl acetate	ug/L	ND	100	100	106	96.4	106	96	70-130	10	30		
Vinyl chloride	ug/L	ND	50	50	60.1	57.8	120	116	70-130	4	30		
1,2-Dichloroethane-d4 (S)	%						92	93	70-130				
4-Bromofluorobenzene (S)	%						101	104	70-130				
Toluene-d8 (S)	%						102	102	70-130				

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

QC Batch:	MSV/25009	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level SC
Associated Lab Samples:	92180341008		

METHOD BLANK: 1092924 Matrix: Water

Associated Lab Samples: 92180341008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/25/13 14:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/25/13 14:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/25/13 14:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/25/13 14:16	
1,1-Dichloroethane	ug/L	ND	1.0	11/25/13 14:16	
1,1-Dichloroethene	ug/L	ND	1.0	11/25/13 14:16	
1,1-Dichloropropene	ug/L	ND	1.0	11/25/13 14:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/25/13 14:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/25/13 14:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/25/13 14:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	11/25/13 14:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/25/13 14:16	
1,2-Dichloroethane	ug/L	ND	1.0	11/25/13 14:16	
1,2-Dichloropropane	ug/L	ND	1.0	11/25/13 14:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/25/13 14:16	
1,3-Dichloropropane	ug/L	ND	1.0	11/25/13 14:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/25/13 14:16	
2,2-Dichloropropane	ug/L	ND	1.0	11/25/13 14:16	
2-Butanone (MEK)	ug/L	ND	5.0	11/25/13 14:16	
2-Chlorotoluene	ug/L	ND	1.0	11/25/13 14:16	
2-Hexanone	ug/L	ND	5.0	11/25/13 14:16	
4-Chlorotoluene	ug/L	ND	1.0	11/25/13 14:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/25/13 14:16	
Acetone	ug/L	ND	25.0	11/25/13 14:16	
Benzene	ug/L	ND	1.0	11/25/13 14:16	
Bromobenzene	ug/L	ND	1.0	11/25/13 14:16	
Bromochloromethane	ug/L	ND	1.0	11/25/13 14:16	
Bromodichloromethane	ug/L	ND	1.0	11/25/13 14:16	
Bromoform	ug/L	ND	1.0	11/25/13 14:16	
Bromomethane	ug/L	ND	5.0	11/25/13 14:16	
Carbon tetrachloride	ug/L	ND	1.0	11/25/13 14:16	
Chlorobenzene	ug/L	ND	1.0	11/25/13 14:16	
Chloroethane	ug/L	ND	1.0	11/25/13 14:16	
Chloroform	ug/L	ND	1.0	11/25/13 14:16	
Chloromethane	ug/L	ND	1.0	11/25/13 14:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/25/13 14:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/25/13 14:16	
Dibromochloromethane	ug/L	ND	1.0	11/25/13 14:16	
Dibromomethane	ug/L	ND	1.0	11/25/13 14:16	
Dichlorodifluoromethane	ug/L	ND	1.0	11/25/13 14:16	
Diisopropyl ether	ug/L	ND	1.0	11/25/13 14:16	
Ethylbenzene	ug/L	ND	1.0	11/25/13 14:16	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/25/13 14:16	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

METHOD BLANK: 1092924

Matrix: Water

Associated Lab Samples: 92180341008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	ND	2.0	11/25/13 14:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/25/13 14:16	
Methylene Chloride	ug/L	ND	2.0	11/25/13 14:16	
Naphthalene	ug/L	ND	1.0	11/25/13 14:16	
o-Xylene	ug/L	ND	1.0	11/25/13 14:16	
p-Isopropyltoluene	ug/L	ND	1.0	11/25/13 14:16	
Styrene	ug/L	ND	1.0	11/25/13 14:16	
Tetrachloroethene	ug/L	ND	1.0	11/25/13 14:16	
Toluene	ug/L	ND	1.0	11/25/13 14:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/25/13 14:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/25/13 14:16	
Trichloroethene	ug/L	ND	1.0	11/25/13 14:16	
Trichlorofluoromethane	ug/L	ND	1.0	11/25/13 14:16	
Vinyl acetate	ug/L	ND	2.0	11/25/13 14:16	
Vinyl chloride	ug/L	ND	1.0	11/25/13 14:16	
Xylene (Total)	ug/L	ND	2.0	11/25/13 14:16	
1,2-Dichloroethane-d4 (S)	%	101	70-130	11/25/13 14:16	
4-Bromofluorobenzene (S)	%	103	70-130	11/25/13 14:16	
Toluene-d8 (S)	%	97	70-130	11/25/13 14:16	

LABORATORY CONTROL SAMPLE: 1092925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.0	96	70-130	
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	70-130	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130 F3	
1,1-Dichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethene	ug/L	50	67.1	134	70-130 F3,L0	
1,1-Dichloropropene	ug/L	50	54.5	109	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.1	96	70-130	
1,2,3-Trichloropropane	ug/L	50	45.7	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	70-130	
1,2-Dichlorobenzene	ug/L	50	46.6	93	70-130	
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
1,2-Dichloropropane	ug/L	50	51.7	103	70-130	
1,3-Dichlorobenzene	ug/L	50	45.2	90	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	45.3	91	70-130	
2,2-Dichloropropane	ug/L	50	57.6	115	70-130	
2-Butanone (MEK)	ug/L	100	116	116	70-130	
2-Chlorotoluene	ug/L	50	45.6	91	70-130	
2-Hexanone	ug/L	100	108	108	70-130	
4-Chlorotoluene	ug/L	50	45.5	91	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

LABORATORY CONTROL SAMPLE: 1092925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	123	123	70-130	
Benzene	ug/L	50	54.1	108	70-130	
Bromobenzene	ug/L	50	45.6	91	70-130	
Bromochloromethane	ug/L	50	47.1	94	70-130	
Bromodichloromethane	ug/L	50	48.4	97	70-130	
Bromoform	ug/L	50	45.6	91	70-130	
Bromomethane	ug/L	50	51.0	102	70-130	
Carbon tetrachloride	ug/L	50	50.9	102	70-130	
Chlorobenzene	ug/L	50	46.6	93	70-130	
Chloroethane	ug/L	50	40.3	81	70-130	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	49.4	99	70-130	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Dibromochloromethane	ug/L	50	48.9	98	70-130	
Dibromomethane	ug/L	50	48.0	96	70-130	
Dichlorodifluoromethane	ug/L	50	41.5	83	70-130	
Diisopropyl ether	ug/L	50	53.5	107	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.9	98	70-130	
m&p-Xylene	ug/L	100	95.6	96	70-130	
Methyl-tert-butyl ether	ug/L	50	53.1	106	70-130	
Methylene Chloride	ug/L	50	58.7	117	70-130	
Naphthalene	ug/L	50	48.7	97	70-130	
o-Xylene	ug/L	50	47.0	94	70-130	
p-Isopropyltoluene	ug/L	50	50.5	101	70-130	
Styrene	ug/L	50	48.5	97	70-130	
Tetrachloroethene	ug/L	50	51.1	102	70-130	
Toluene	ug/L	50	49.6	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.8	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	41.7	83	70-130	
Vinyl acetate	ug/L	100	121	121	70-130	
Vinyl chloride	ug/L	50	52.4	105	70-130	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1094253 1094254

Parameter	Units	92179772004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD Qual
1,1,1,2-Tetrachloroethane	ug/L				55.5	55.0				1	30
1,1,1-Trichloroethane	ug/L				56.9	56.7				0	30

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Parameter	Units	92179772004		MS Spike Conc.	MSD Spike Conc.	1094253		1094254		% Rec Limits	Max RPD	Max RPD	Qual
		Result	ND			MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,2,2-Tetrachloroethane	ug/L					54.3	54.8				1	30	
1,1,2-Trichloroethane	ug/L					56.0	55.3				1	30	
1,1-Dichloroethane	ug/L					54.3	52.8				3	30	
1,1-Dichloroethene	ug/L					57.4	56.7				1	30	
1,1-Dichloropropene	ug/L					58.0	57.5				1	30	
1,2,3-Trichlorobenzene	ug/L					51.9	51.3				1	30	
1,2,3-Trichloropropane	ug/L					54.8	53.8				2	30	
1,2,4-Trichlorobenzene	ug/L					52.4	51.3				2	30	
1,2-Dibromo-3-chloropropane	ug/L					55.5	51.7				7	30	
1,2-Dichlorobenzene	ug/L					54.8	52.7				4	30	
1,2-Dichloroethane	ug/L		ND	50	50	53.1	53.1	106	106	70-130	0	30	
1,2-Dichloropropane	ug/L					55.7	55.0				1	30	
1,3-Dichlorobenzene	ug/L					53.7	51.7				4	30	
1,3-Dichloropropane	ug/L					55.4	54.2				2	30	
1,4-Dichlorobenzene	ug/L					54.5	53.4				2	30	
2,2-Dichloropropane	ug/L					58.3	58.8				1	30	
2-Butanone (MEK)	ug/L					99.8	102				2	30	
2-Chlorotoluene	ug/L					53.6	52.0				3	30	
2-Hexanone	ug/L					96.2	99.3				3	30	
4-Chlorotoluene	ug/L					55.4	55.2				0	30	
4-Methyl-2-pentanone (MIBK)	ug/L					100	99.6				0	30	
Acetone	ug/L					94.5	83.4				12	30	
Benzene	ug/L	3.0		50	50	60.5	60.6	115	115	70-130	0	30	
Bromobenzene	ug/L					54.9	54.3				1	30	
Bromochloromethane	ug/L					55.0	55.0				0	30	
Bromodichloromethane	ug/L					56.0	56.4				1	30	
Bromoform	ug/L					56.0	55.7				0	30	
Bromomethane	ug/L					59.8	59.6				0	30	
Carbon tetrachloride	ug/L					55.1	54.6				1	30	
Chlorobenzene	ug/L					54.7	54.2				1	30	
Chloroethane	ug/L					53.5	55.3				3	30	
Chloroform	ug/L					54.7	53.4				2	30	
Chloromethane	ug/L					46.1	45.4				2	30	
cis-1,2-Dichloroethene	ug/L					52.6	51.1				3	30	
cis-1,3-Dichloropropene	ug/L					57.7	56.7				2	30	
Dibromochloromethane	ug/L					53.7	53.1				1	30	
Dibromomethane	ug/L					55.1	54.9				0	30	
Dichlorodifluoromethane	ug/L					51.5	51.6				0	30	
Diisopropyl ether	ug/L	ND	50	50		50.6	50.1	101	100	70-130	1	30	
Ethylbenzene	ug/L	5.5		50	50	59.9	59.3	109	108	70-130	1	30	
Hexachloro-1,3-butadiene	ug/L					57.3	58.7				2	30	
m&p-Xylene	ug/L	13.5	100	100		126	123	112	110	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	50	50		58.3	57.7	117	115	70-130	1	30	
Methylene Chloride	ug/L					50.2	50.3				0	30	
Naphthalene	ug/L	ND	50	50		49.8	48.5	100	97	70-130	3	30	
o-Xylene	ug/L	5.4		50	50	61.1	60.1	112	109	70-130	2	30	
p-Isopropyltoluene	ug/L					58.2	58.0				0	30	

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QUALITY CONTROL DATA

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Parameter	Units	92179772004		MS Spike Conc.	MSD Spike Conc.	1094253		1094254		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Result			MSD Result	MS % Rec	MSD % Rec	MS % Rec				
Styrene	ug/L				56.4	56.3				0	30		
Tetrachloroethene	ug/L				58.9	57.9				2	30		
Toluene	ug/L	7.2	50	50	63.7	62.5	113	110	70-130	2	30		
trans-1,2-Dichloroethene	ug/L				55.2	55.2				0	30		
trans-1,3-Dichloropropene	ug/L				57.3	56.6				1	30		
Trichloroethene	ug/L				56.4	55.8				1	30		
Trichlorofluoromethane	ug/L				50.6	50.2				1	30		
Vinyl acetate	ug/L				96.8	96.9				0	30		
Vinyl chloride	ug/L				52.4	52.3				0	30		
1,2-Dichloroethane-d4 (S)	%						96	97	70-130				
4-Bromofluorobenzene (S)	%						103	102	70-130				
Toluene-d8 (S)	%						100	101	70-130				

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QUALIFIERS

Project: CASTLEBRIDGE
Pace Project No.: 92180341

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

- F3 The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
- H1 Analysis conducted outside the EPA method holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CASTLEBRIDGE

Pace Project No.: 92180341

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92180341001	MW-1D	EPA 8260	MSV/24992		
92180341002	MW-1D DUPLICATE	EPA 8260	MSV/24992		
92180341003	MW-2D	EPA 8260	MSV/24992		
92180341004	MW-3	EPA 8260	MSV/24992		
92180341005	MW-4	EPA 8260	MSV/24992		
92180341006	MW-5	EPA 8260	MSV/24993		
92180341007	MW-6D	EPA 8260	MSV/24993		
92180341008	MW-7D	EPA 8260	MSV/25009		
92180341009	MW-8	EPA 8260	MSV/24993		
92180341010	MW-9	EPA 8260	MSV/24993		
92180341011	MW-10	EPA 8260	MSV/24993		
92180341012	MW-11	EPA 8260	MSV/24993		
92180341013	MW-12	EPA 8260	MSV/24993		
92180341014	MW-13	EPA 8260	MSV/24993		
92180341015	FIELD BLANK	EPA 8260	MSV/24992		
92180341016	TRIP BLANK	EPA 8260	MSV/24992		

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Client Name: TorisonWhere Received: Huntersville Asheville Eden RaleighCourier: FedEx UPS USPS Client Commercial Pace Other _____Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional	Checkmark
Proj. Due Date:	_____
Proj. Name:	_____

Packing Material: Bubble Wrap Bubble Bags None Other _____Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 48 C Biological Tissue Is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments: _____

Date and Initials of person examining
contents: ELO 11/20/13

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>No late time on TB</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	<u>YAT</u>	Date:	<u>11/20/13</u>
SRF Review:	<u>YAT</u>	Date:	<u>11/21/13</u>

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92180341



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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company <u>Terracon</u> Address <u>3534 P Herford Rd.</u> Email To <u>Cdealy@Terracon.com</u> Reg# <u>292-2901</u> F# <u>864-292-6361</u> Requested Due Date/FA <u>Standards</u>		Report To <u>Craig Eady</u> Copy To <u>Craig Eady</u> Purchase Order No <u></u> Project Name <u>Castbridge</u> Project Number <u>8611704</u>		Attention <u>Craig Eady</u> Company Name <u>Terracon</u> Address <u>Same</u> Pace Quote Reference <u></u> Pace Project Manager <u></u> Pace Profile # <u></u>	
				<input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> GROUND WATER <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location <u>SC</u> STATE: <u>SC</u>	NPDES UST Residual Chlorine (Y/N)
				Requested Analysis Filtered (Y/N) <input checked="" type="checkbox"/> V/N	
				Analysis Test ↑ <input checked="" type="checkbox"/> V/V (OC-8260 (FVII))	
				Sample Temp At Collection # OF CONTAINERS	
				Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	
				COMPOSITE START	
				DATE TIME DATE TIME	
				SAMPLE TYPE (G=GRAIN, C=COMPO)	
				Matrix Code (see valid codes to left)	
				# OF PRESERVED	
				PRESERVATIVES	
				ANALYSIS TEST ↓	
				Pace Project No./Lab I.D. <u>DL</u> <u>G14</u> <u>G15</u> <u>G16</u>	
				Samples initial	
				Received On <u>11/19/13</u> Custody Control No. <u>C</u> Lab (Y/N) <u>C</u>	
				Samples initial	
				Temp in °C <u>25</u> Received on <u>11/19/13</u> Custody Control No. <u>C</u> Lab (Y/N) <u>C</u>	
				*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days	
				Signature of Sampler: <u>Ryan C. Haynes</u> Signature of Sampler: <u>Ryan C. Haynes</u> Date Signed <u>11/19/13</u> (MM/DD/YY)	
				ORIGINAL	

APPENDIX F

SC DHEC MONITORING WELL APPROVAL



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

September 25, 2013

Mr. Thom Morgan
Castlebridge Properties LLC
PO Box 128
Hazelwood, NC 28738

RE: Approval
Monitoring Well Sampling Results
Castlebridge Properties, LLC Property
File # 057423

Dear Mr. Morgan:

The South Carolina Department of Health and Environmental Control (Department) received the above referenced report on August 9, 2013. This report summarizes the results of recent sampling activities at the Castlebridge property located at 200 and 280 National Avenue in Spartanburg, SC. This report also recommends the installation of six permanent monitoring wells.

After reviewing the report, the Department concurs with the installation of the six monitoring wells. A monitoring well approval is attached.

If you have any questions, please contact me at longkd@dhec.sc.gov or (803) 898-0774.

Sincerely,

Keisha D. Long
State Remediation Section
Bureau of Land and Waste Management

CC: R. Gary Stewart, P.E., State Remediation
Cindy Carter, Upstate EQC - Spartanburg
✓Craig D. Eady, P.G., Terracon
File # 057423



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Date of Issuance: September 24, 2013

Approval #: MW-09332

Approval is hereby granted to: Craig Eady, Terracon
3534 Rutherford Road
Taylors, South Carolina 29687

Facility: Castlebridge Properties, LLC Property, 200/280 National Avenue
VCC 07-5712-RP
Spartanburg County

This approval is for the installation of six (6) permanent groundwater monitoring wells. The wells will be installed in the locations as illustrated in Figure 3 and per the construction details included in the Monitoring Well Sampling Results report dated July 1, 2013. These monitoring wells are to be installed following all of the applicable requirements of R.61-71.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All wells shall be properly developed per R.61-71.H.2.d. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted within 30 days after well completion or abandonment unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
3. All analytical data and water levels obtained from each monitoring well shall be submitted to the Project Manager (Keisha Long) within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
4. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
5. If any of the information provided to the Department changes, including the proposed drilling date, the Project Manager (Keisha Long) shall be notified at least twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 25, 2008.

Carol C. Minsk, Hydrogeologist
Division of Site Assessment, Remediation and Revitalization
Bureau of Land and Waste Management

cc: Keisha Long